

1109/6881
FIGURE 1033

MSSVAVLTQESFAEHRSGLVPPQIKVATLNSEESDPPTYKDAFPPLPEKAACLES AQEPAGAWGNKIRPIKASV
ITQVFHVPLEERKYKDMNQFGEGEQAKICLEIMQRTGAHLELSLAKDQGLSIMVSGKLDAMKARKDIVARLQTQ
ASATVAIPKEHHRFVIGKNGEKLQDLELKTATKIQIPRPDDPSNQIKITGTKEGIEKARHEVLLISAEQDKRAVE
RLEVEKAFHPFIAGPYNRLVGEIMQETGTRINIPPPSVNRTEIVFTGEKEQLAQAVARIKKIYEEKKKKTTTTIAV
EVKKSQHKYVIGPKGNSLQEILERTIGVSVEIPPSDSISSETVILRGEPEKLGQALTEVYAKANSFTVSSVAAPSWL
HRFIIGKKGQNLAKITQQMPKVHIEFTEGEDKITLEGPTEDVNVAQEQIEGMVKDLINRMDYVEINIDHKFHRHL
IGKSGANINRIKDQYKVSVRIPPDSEKSNLIRIEGDPQGVQQA KRELLELASRMENERTKD LIEQRFHRTIIGQ
KGERIREIRDKFPEVIINFPDPAQKSDIVQLRGPKNVEVEKCTKYMQKMVADLVENSYSISVPIFKQFHKNIIGKG
GANIKKIREESNTKIDLPAENSNSSETIIITGKRANCEAARSRI LSIQKDLANIAEVEVSIPAKLHNSLIGTKGRL
IRSIMEECGGVHIHFPVEGSGSDTVVIRGPSSDVEKAKKQLLHLAE EKQTKSFTVDIRAKPEYHKFLIGKGGKI
RKVRDSTGARVIFPAAEDKDQDLITIIIGKEDAVREAQKELEALIQNL DNVVEDSMLVDPKHHRHFVIRRGQVLRE
IAEYGGVMVSFPRSGTQSDKVT LKGAKDCVEAAKKRIQEI IEDLEAQVTLECAIPQKFHRSVMGPKGSRIQQIT
RDFSVQIKFPDREENAVHSTEPVVQENGDEAGEGREAKDCDPGSPRRCDIIIIISGRKEKCEAAKEALEALVPVTI
EVEVPFDLHRYVIGQKSGIRKMMDEFEVNIHVPAPELQSDIIAITGLAANLDRAGLLERVKELQAEQEDRAL
RSFKLSVTVDPKYHPKIIIGRKGAVITQIRLEHDVNIQFPDKDDGNQPDQITITGYEKNTEAARDAILRIVGELE
QMVSEDVPLDHRVHARIIGARGKAIRKIMDEFKVDIRFPQSGAPDPCVTVTGLPENVEEAIDHILNL EEEYLAD
VVDSEALQVYMKPPAHEEAKAPSRGFVVRDAPWTASSEKAPDMSSSEFFPSFGAQVAPKTLPWGPKR

1110/6881
FIGURE 1034

CCCAGCTCGGTGCTGCCGCCATCTTCTTGGAGGACAGGAGGAGAGGCGAAGGCTCCCCCTCCCCGTGATCGCTCC
GCACTCCCGCCACCACCTGCCCTCCCGCGACCGCCTCTCTCCTCCTCAGTGGGCACTTGTCTCCTTCTAACAAAC
GGCCTTCCCCCACTCCAGTTACCCACCGCAAGGCGAAGATTCTCATTACCTGTTCCACTCTTATAAGCATAAGA
AAACCGAGCTCATAAGACGAAGCTTACAAAAGATGTCTAAGCAACAGCCAACCTCAGTTTATAAATCCAGAAACA
CCTGGCTATGTTGGATTGCAAACCTCCCCAATCAAGTTCACCGAAAATCAGTGAAAAAGGTTTTGAGTTCACA
CTGATGGTGGTGGTGAATCAGGTCTAGGAAAATCGACTCTCATAAACAGCCTATTCTAACTGATCTGTACCCA
GAAAGAGTCATACCTGGAGCAGCAGAAAAATTGAAAGAACTGTCCAGATTGAGGCTTCAACTGTTGAAATTGAA
GAGCGAGGGGTCAAGCTACGCTGACAGTGGTAGATACCCCTGGCTATGGTGACGCTATCAACTGCAGAGATTGT
TTTAAGACAATTATCTCCTATATTGATGAGCAATTTGAGAGGTACCTGCATGACGAGAGCGGCTTGAACAGGCGG
CACATCATTGATAATAGGGTGCATTGTTGCTTTTACTTTATTTTACCTTTTGGACATGGACTTAAGCCCTTAGAT
GTGGCGTTTATGAAGGCAATACACAACAAGGTGAATATTGTGCTGTGCTATTGCAAAAGCTGACACTCTCACCCCTG
AAGGAACGGGAGCGGCTGAAGAAAAGGATTCTGGATGAAATTGAAGAACATAACATCAAAATCTATCACTTACCT
GATGCAGAAATCAGATGAAGATGAAGATTTTAAAGAGCAGACTAGACTTCTCAAGGCTAGCATCCCATTCTCTGTG
GTTGGATCCAATCAGTTGATTGAAGCCAAAGGAAAGAGGTGAGAGGCCGCTCTACCCCTGGGGTGTGTGGAA
GTGGAGAACCCAGAGCACAATGACTTTCTGAAGCTGAGAACCATGCTCATCACCCACATGCAGGATCTCCAGGAG
GTGACCCAGGACCTTCATTATGAAAACCTCCGTTCTGAGAGACTCAAGAGAGGCGGCAGGAAAGTGGAGAATGAG
GACATGAATAAAGACCAGATCTTGCTGGAAGAAAGCTGAGCTCCGCCGCATGCAAGAGATGATTGCAAGGATG
CAGGCGCAGATGCAGATGCAGATGCAGGGCGGGGATGGCGATGGCGGGGCTCTCGGGCACCACGTGTAAAGGTGAT
GTGCACATATCAAGAAGTCAGAGAAAACACTTTCTGGATAAAAAAGAAAACATTCAGAATGCATGATCCAGCTG
TGIGTTTTCAATCCTTGGGAGGGTGCCATCCACATTTTAAACAGTACCTGTGCTGAGAAATTAATTTTTAAAGA
CTTTGATGTGTTTTTGTATGAAGTACTTTTAACTGATGTATTTTATTGCTGTGTGTCACACTCTGTGTTTTGTGAGG
TGAATGCTCTCCTTTTCTTTCTCCCTAACCACTAATGTTAGAATTGATTTCCAAGAAATCGGCATGTATACTTAAT
ACTGAATTTCTTTGATTTAACTGACTTAACAACCTGACTAACCAATTGATGAGCACTCCTGATTTTTATCTAGAACA
TTCAGATTTACCATAATGTTCCCTTAGTGGTAGAGGTGTGTGCCTAGTGATGTAGAAAGATACACTGACTTGGTGC
AAGGCCATCTGCTTACCACATCACACCACTTGGAGATCTTTGCTTCTTGTCTTTTATGTTGTACACAACACCTA
AAACCAGTTTTGCTGCTATAATTCTATACTGTTGATTGCTGCGATTTTATCTGTTAACCATAAACAATAAT
AGAATTTCTAATGAGATATATCTTTATACTTAAACAGCTTTTTTAGAGGTGAGTTTTAAAGAAGTCTCTTAAT
CTGATGCTAGGTTGTTTTTAAACCCTATGCAAGAACTCACCACAAGCCACCTTTTGTAGTGTCTCCACTAA
TACTGGTTATCCTGTGCTACAGAGAAAATCAAAGCAGTCATAAGCTCCAGTTTTCCGTAATGCAAAATAAGACTCT
TACCTACAAAATGAGATTCCAGTGAACATAATTGGTTTTTACTCAACCAATTAATAATTTTTTAAAGGAAAAT
AGCAGTTGGTCTATTGAGAAATCAAACCTTTTTATATTTTATACTGCACTTTAGTGTATTTCTGTCACTGTAGGT
ATAGAAGATCTGCTCCCTGTGGAAATTGGGGTCTGTTGGTGGGCTTGCCCTGAAGCCTGGCTTGGGTTGAAA
AGTGTTCCTCGCCCTAAGGCCTTGGTGCCCTGAACCTCTGATGCCTACCGGGTTCTCCTGATTTGAGTTTCTTTA
AATACTCCCTTTTTGAGTAATTTTCTGATGGGAGGAAAGTAGCAGTCATCATCTTTTTGTGTGCAGGCTGTCTCA
TTTATTTTTAGCCATTGTCGTTTCATTCTTTTGTGTAATATAAACCGTGTGTGTCATGTCAAAGTGAAGACATTT
CAAATCTGTAGCATAGGCTAGTGGGCAGGTCCGCACAGTCGAAGCCACACCTGGTCTGTTTTCTGTGCACTGTAG
CCTTAGTGTACCTTTCTTCTTGTGCTCCTTATGGTACACTCCAGCGGTTGCTTTTTTATCATTTTCTACTGAA
GTTGGGAAATTCAACCCAGAAATTGACAGATGAAAGGAGACAATGGTTGTGTAGGGAGATGGAGAAAATGCTTA
ATCTGAGGATGAGACAGGGTTTTTTCATTTTTGTGGGGGCTAGAAAAACATAAAATGAGGCAGTTAAATAATAA
TAGTTAATGAAGGTGTGCTACAGAAAATAATCTGGTGTCTTGCTAATTTGCTTACTTGTGTTGCTTAATTGTG
AACAGCCAAAAGCTATATGTTATGGCTTATTGTGTGAAGGTAACATAAGAAAGTGGTGTCCATGACTTCAGAGTAC
ATCCATGCGGAGTCCATTATTTGAGTTTGACATTTAATAACTTTGCTGGAATAATCTGTAAAAAGAAAAACAAGT
TTGCTAGTGAATAAGCCCCGCATATGTGAGTGAAAGTACTTCAGGCACGCTGCCCTCTGGTAAACAGCTATGCAGG
GAGGGAGGACCCCACTGCTACACTTCTGATCCCTTTGGTTTTTACTACCCAAATCTAAATAGATACTTTTGATA
ATAGATAACTGCTCTTTTACTAAGACATAGTCTCTACCTATAGAAATGTATTTTGAACACTTATTTTACACAG
CAATTTTGTATCCATTTAAACTAACCTTTTATCAATAAAGCACTATTGTTTAGATATT

1111/6881
FIGURE 1035

MSKQQPTQFINPETPGYVGFANLPNQVHRKSVKKGFEFTLMVVGESGLGKSTLINSFLTDLYPERVIPGAAEKI
ERTVQIEASTVEIEERGVLRLTVVDTPGYGDAINCRDCFRTIISYIDEQFERYLHDESGLNRRHIIDNRVHCCF
YFISPFHGHLKPLDVAFMKAIHNKVNIVPVIKADTLTLKERERLKKRILDEIEEHNIKIYHLPDAESDEDEDFK
EQTRLKASIPFSVVGSNQLIEAKGKKVRGRLYPWGVVEVENPEHNDFLKLRTMLITHMQDLQEVTDLHYENFR
SERLKRGRKVENEDMNKDQILLEKEAELRRMQEMIARMQAQMOMQGGDGDGGALGHV

1112/6881
FIGURE 1036

CACCGAGCGCCCCTGGTGTCCCTCGCAGTGGACTGACGCCGAGGGGCGAGCTAGCCGGCTCCGCGCCTCTCCGC
GGGATCCAGACGCCTCCTGGGGCTGCTGGCGGAGGGTCTGAGGCGGCGCGGCCATGGCTCACCTCCGGGGATTG
CCAACCAGCACTCTCGAGTGGACCCTGAGGAGCTCTTACCAAGCTCGACCGCATTGGCAAGGGCTCGTTTGGG
AGGTCTACAAGGGCATCGATAACCACACAAAGGAGGTGGTGGCCATCAAGATCATCGACCTGGAGGAGGCCGAGG
ATGAGATCGAGGACATCCAGCAGGAGATCACTGTCTCAGTCAGTGCACAGCCCCCTACATCACCCGCTACTTTG
GCTCTTACCTAAAGAGCACCAAGCTATGGATCATCATGGAGTACCTGGGCGGCGGCTCAGCACTGGACTTGCTTA
AACCAGGTCCCCTGGAGGAGACATACATTGCCACGATCCTGCGGGAGATTCTGAAGGGCCTGGATTATCTGCACT
CCGAACGCAAGATCCACCAGACATCAAAGCTGCCAACGTGCTACTCTCGGAGCAGGGTGACGTGAAGCTGGCGG
ACTTTGGGGTAGCAGGGCAGCTCACAGACACGCAGATTAAGAGGAACACATTCTGGGCACCCCCCTTCTGGATGG
CACCTGAGGTTCATCAAGCAGTCGGCCTACGACTTCAAGGCTGACATCTGGTCCCTGGGGATCACAGCCATCGAGC
TGGCCAAGGGGGAGCCTCCAACTCTGACCTCCACCCCATGCGCGTCTGTTCCTGATTCCCAAGACAGCCCAC
CCACACTGGAGGGCCAGCACAGCAAGCCCTTCAAGGAGTTCGTGGAGGCCTGCCCAACAAAGACCCCCGATTCC
GGCCCACGGCCAAGGAGCTCCTGAAGCACAAAGTTCATCACACGCTACACCAAGAAGACCTCCTTCCTCACGGAGC
TCATCGACCGCTATAAGCGCTGGAAGTCAGAGGGGCATGGCGAGGAGTCCAGCTCTGAGGACTCTGACATTGATG
GCGAGGCGGAGGACGGGGAGCAGGGCCCCATCTGGACGTTCCCCCTACCATCCGGCCGAGTCCACACAGCAAGC
TTCACAAGGGGACGGCCCTGCACAGTTCACAGAAGCCTGCGGAGCCCGTCAAGAGGCAGCCGAGGTCCCAGTGCC
TGTCCACGCTGGTCCGGCCCGTCTTCGGAGAGCTCAAAGAGAAGCACAAAGCAGAGCGGCGGGAGCGTGGGTGCGC
TGGAGGAGCTGGAGAACGCCTTCAGCCTGGCCGAGGAGTCTGCCCCGGCATCTCAGACAAGCTGATGGTGCACC
TGGTGGAGCGAGTGCAGAGGTTTTACACAACAGAAACCACCTGACATCCACCCGCTGAAGCGCACTGCTGTTCA
GATAGGGGACGGAAGGTCGTTTGTGTTTTGTTCTGAGCTCCATAAGAACTGTGCTGACTTGGAAGGTGCCCTGTGC
TATGTCGTGCCTGCAGGGACACGTCCGATCCCGTGGGCCTCACATGCCAGGTCACCAGGTACCGTCTCCTTCCA
CCCCTGCACTGTGCTGTTGTGCACGTACAGGGACGCTGTTCTCTATGCCCCTGCCCCCTCCTCCTCTCCTGGCCCA
GCAGTATTGCTCACGGGGGCTCCAGCCGCCGCGTGGCCCTCATGAGCTACGCCCTGGGTCTTCTGCAGACTCATG
CAGCCCTATGGCCGCTCAGACCAAGGCGCAGAGCAACTATCAGGGCAGCTCTGCCTCCTCCTCCCATGAGGTGGG
GAGAGGCAACAGGGCAGCCCCCAGAGGAGTGTCTGGCCGCTGTCTCCCGGGGCCATGATGGCCATAGATTG
CCTTGTGGTGTGGATCAGGTACTGTGTCTGCTCATAAGTACTTGTGTATCCAGAATGTTTTGTTTTTAAGAA
AATTGAATTACTTGTTCCTGAAA

1113/6881
FIGURE 1037

GGCACGAGGCCAATCCCATGCCTGGGGGAGAGACAGCGGCTCAGGAGTGGGGGAGCACGGGCCTTCTACACCACA
TGGGAAGGCTCTGGCATGAGGTTTTCTTTGGGAAGGTTGTTTGGGCCCCTGAAGTTCCATCTCCGAGAGTGGTG
TGCAGGGCAGGCCAGGGCCCATGCTGGCTGCAGTCTTTGTGGCTGCCTGCCTGGGCCAGCCTGTTTGGGAGCTGG
GACTGTGGGCTCGCCTTTTCGTACCTGGGCTCAGGTGCGGTGTGGCCACCGCCACCCTCATCCCCTGCTGGGAG
GCTCTCCAGGGGCTGATGGGGGGTTCTGTGAGGGAGAATCAGGGCTCGGGAAGCCACGCCTGGGAAGGCAGGA
CACAGGACACAGCAGCTTTCTTTGAAATCTCCCAGGTGAGGATTACATCCCCAAAATAAAATTGAGAAGCCAGG
TGGCCTGTGCTCCCCATGGGTGACCTCTGGAGGCAGTGACCAAGATGCAGCAAGGAGAGGATGCAGAACAGCTT
CTTGACAGAAGCACCTGCTCCGGCATCCAGCGCTGCCTGGAGGCAGGAAGGAGAGGCAGGGCAGGACACGCTGGTC
TGAGATGAGGGGGAGCCCCATGGGCCCCAGGCAGGCTAGAGGAGGCACAGGCCCTGCCACGGCCAACTCAGGTCA
GCCAGCCTGAGGCTGTGGCCTCCAAAGGCTCTGGGCGCACCCCCAGGTGCGAGGTGTCTGAGGCCAGCCAACCT
GCAGAGCACTCGCGCGTGGGTGGGCTGAGTGGAGGTGCCTGGGAGCTGCCTAAATTGAGAAGCCTCCACTGCCA
TGGAGACTGCCTGGCTGTGCTCTCTAGCCAGGTGCCGTGTTGGCCTTGGCTAGGACCCAGAGCCACACTGCAGC
CTCCGCCGACTCCCTCCTTCCGGGCTGCTCTAGTGAGGAGTGCCTAAGCCAGGACCCAGAACTCAGAGTTGAT
GGTGAGAGGAGGCCGCTGAGTCAGGACACCTGGCTTCTTGAAAAGTTCGCTCTGCCAGAAACCACCTAGGGACC
ACGTTAGCTGCCTTCTTGAGCTCCCCAGGAGTCCGTTTCCACATCTGTGAGGTGGAGGGCTGGTGTGGAGGTGC
TCATGGGGTGCGGTGCTTGGGAGACAGCCAGGCCAGGGTGGCTGCTGCTTCTGCTAAGTGGGGGAGGTGAGAC
AGATCTGGAAGCCGTCTCCCTCAGATGGTTTCAATTAATGCTTTATACTGCCGAGTCTGGGGGCTTGTTTGGT
TTGGGGGCAGCCATCCTCCACCAGAAAGGGGGAGCTCCTTCCGCTGCGGCTCCAGATAGATGGGGATGCCGGGCT
CCAGGCCGACCAGCACTTGGGATCTGATGGGACACGGCCAGTGCTAGGGGTGCCAAGTCCAAGGCCTCCCACTG
GGAGTCATCGCTGAGAAGATGCCAATGTTTCAACCGGCTGCACAGGCACAACTCCCCCACCAGGACGGCT
GTGATGAGGTGGCCCTCCCTGTCAACCCTGGTCCCTGGAGTCCCCAGCACCTGGGGCCCTGGTGGGGCTGATGTC
ACAGGTGTTTACTGTGCTGCTGCACTGGTCCATGCCAGCCTCACCATGTGGGGACCACGGAAGGCACACTCCC
TTACCCCCGGTGCCGGGCCGTGCGGTCCCCCAGACGGACAGCAGCTGTGGCGACCTGCGTTTCTCCCTGGGCCTG
TGCTTCCCTGATGTTAGTCCGTCCCTGGTTCCCTGTGGCTCAGAGGCCGCGTCCCTGGCTTGTACATATGTGAT
TGCTGTGGGCACACCCAGACCCCATGTCATAGCTGCCGTCCCGACGTACGACGCCTGTCCCGATGTCTTACAC
CCGAGTGTTAGCCCTAGGCTCCTGTACTGTGCGTGCACCTTAGGGCTCTGTCCAATTAAGAAATAAATGTGGCTCT
TACTCAACACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

1114/6881
FIGURE 1038

MRWPSLSTLVPGVPSTWGPGGADVIGVYCAAALVLCQPHPCGDHGRHTPLPPVPGRAVPQTDSSCGDLRFSLGLC
FL

1115/6881
FIGURE 1039

ATGGAGGAACGGCGGGCTCCGAGCCGCGCCCCGGAGTCCGCGAACTTCCGAGCGGGCGCCCCCTGAAGGACCTG
ACCCGCTTCGTGGATTTCAACATCAAAGGGCGCGACGTGATCGTGTTCCCTCCACATCCAGAAGACGGGGGGCACC
ACTTTCGGCCGGCACCTGGTGAAGAACATCCGGCTGGAGCAGCCTTGTAAGCTGCAAAGCGGGTCAGAAGAAGTGC
ACCTGCCACCGGCTGGCAAGAAGGAGACGTGGCTCTTCTCCCGCTTCTCCACCGGCTGGAGCTGCGGGCTGCAC
GCCGACTGGACGGAGCTCACCAACTGCGTGCCGGCCATCATGGAGAAGAAGGACTGTCCCCGCAACCACAGCCAC
ACCAGTCCTGACCCAGAGCGACCCCGCGCTCCCTGCCCTGCCGATGGTTTCTGGCGTCTTCAGCGGTTGGCGC
CGTGGCTTTGGGGAGGGATGA

1116/6881
FIGURE 1040

ATGCTAACTAGTTACGCGACCCCGAGCGGTCGGCGTCCCCCACTTCTTAGAGGGACAAGTGGCGTTCAGCCAC
CCGAGATTGAGCAATAACAGGTCTGTGATGCCCTTAGATGTCCGGGGCTGCACGCGCGCTACACTGACTGGCTCA
GCGTGTGCCTACCCTACGCCGGCAGGCGCGGGTAACCCGTTGAACCCATTTCGTGATGGGGATCGGGGATTGCAA
TTATTCCCCATGAACGAGGAATTCCCAGTAAGTGCGGGTCATAAGCTTGCGTTGATTAAAGTCCCTGCCCTTTGTA
CACACCGCCCGTCGCTACTACCGATTGGATGGTTTAGTGAGGCCCTCGGATCGGCCCCGCCGGGGTCGGCCACG
GCCCTGGCGGAGCGCTGA

1117/6881
FIGURE 1041

GCGGCAACAGCGGGGCCGATGTGTAGTTGGTGACTGCCTCTCCAGATGCTGAGGTGCCTGTATCATTGGCACAGG
CCAGTGCTGAACCGTAGGTGGAGTAGGCTGTGCCTTCCGAAGCAGTATCTATTCAATGAAGTTGCAGTCTCCC
GAATTCAGTCACTTTTACAGAAGGACTGAAGAGTCTGACAGAATTATTTGTCAAAGAGAATCACGAATTAAGA
ATAGCAGGAGGAGCAGTGAGGGATTATTAAATGGAGTAAAGCCTCAGGATATAGATTTTGCCACCACTGCTACC
CCTACTCAAATGAAGGAGATGTTTCAGTCGGCTGGGATTCCGATGATAAACAACAGAGGAGAAAAGCACGGAACA
ATTACTGCCAGGCCTTCATGAAGAAAATTTTGAGATTACTACACTACGGATTGATGTCACCACTGATGGAAGACAT
GCTGAGGTAGAATTTACAACCTGACTGGCAGAAAGATGCGGAACGCAGAGATCTCACTATAAATTCTATGTTTTTA
GGTTTTGATGGCACTTTTATTGACTACTTTAATGGTTATGAAGATTTAAAAAATAAGAAAGTTAGATTTGTTGGA
CATGCTAAACAGAGAATACAAGAGGATTATCTTAGAATTTTAAGATACTTCAGGTTTATGGGAGAATTGTAGAC
AAACCTGGTGACCATGATCCTGAGACTTTGGAAGCAATTGCAGAAAATGCAAAAGGCTTGGCTGGAATATCAGGA
GAAAGGATTTGGGTGGAACGAAAAAAATTTCTTGTGGTAACCATGTAAATCATTGATTCACCTTATCTATGAT
CTTGATGTGGCTCCTTATATAGGTTTACCTGCTAATGCAAGTTTAGAAGAATTTGACAAAGTCAGTAAAAATGTT
GATGGTTTTTACCAAAGCCAGTGACTCTTTTGGCCTCATTATTCAAAGTACAAGATGATGTCACAAAATTGGAT
TTGAGGTTGAAGATCGCAAAGAGGAGAGAAAACCTTGGCTTATTTATAGTTAAAAATAGGAAAGATTTAATTAAA
GCAACAGATAGTTTCAAGCCATTGAAACCCTATCAAGACTTCATTATAGATTCTAGGGAACCTGATGCAACTACT
CGTGTATGTGAACCTACTGAAGTACCAAGGAGAGCACTGTCTCCTAAAGGAAATGCAGCAGTGGTCCATTCTCTCA
TTTCTGTAAAGTGGCCATGACATCAGAAAAGTGGGCATTTCTTCAGGAAAAGAAATTGGGGCTCTATTACAACAG
TTGCGAGAACAGTGGAAGAAAAGTGGTTACCAAATGGAAGAAAGATGAACTTCTGAGTTACATAAAGAAGACCTAA
AACTGATGGCTACTAAAAAGCAGAGCATT

GGACACCGGGCCATGCACGCCCCCAACTGAAGCTGCATCTCAAAGCCGAAGATTCCAGCAGCCAGGGGATTCTCA
AAGAGCTCAGACTCAGAGGAACATCTGCGGAGAGACCCCGAAGCCCTCTCCAGGGCAGTCTCATCCAGACGCT
CCGCTAGTGCAGACAGGAGCGCGCAGTGGCCCCGGCTCGCCGCGCCATGGAGCGGATCCCCAGCGCGCAACCACC
CCCCGCCTGCCTGCCCAAAGCACCGGGACTGGAGCACGGAGACCTACCAGGGATGTACCCTGCCACATGTACCA
AGTGTACAAGTCAAGACGGGGAATAAAGCGGAGCGAGGACAGCAAGGAGACCTACAAATTGCCGCAACGGCTCAT
CGAGAAAAAGAGACGTGACCGGATTAACGAGTGCATCGCCAGCTGAAGGATCTCCTACCCGAACATCTCAA
TACAACCTTTGGGTCACTTGGAAAAAGCAGTGGTCTTGAACCTACCTTGAAGCATGTGAAAGCACTAACAAACCT
AATTGATCAGCAGCAGCAGAAAAATCATTGCCCTGCAGAGTGGTTTACAAGCTGGTGAGCTGTCAGGGAGAAATGT
CGAAACAGGTCAAGAGATGTTCTGCTCAGGTTTCCAGACATGTGCCGGGAGGTGCTTCAGTATCTGGCCAAGCA
CGAGAACACTCGGGACCTGAAGTCTTCGCAGCTTGTCAACCCACCTCCACCGGTGGTCTCGGAGCTGCTGCAGGG
TGGTACCTCCAGGAAGCCATCAGACCCAGCTCCCAAAGTGATGGACTTCAAGGAAAAACCCAGCTCTCCGGCCAA
AGGTTTCGGAAGGTCTTGGGAAAAACTGCGTGCCAGTCAATCCAGCGGACTTTCGCTCACTCGAGTGGGGAGCAGAG
CGGCAGCGACACGGACACAGACAGTGGCTATGGAGGAGAATCGGAGAAGGGCGACTTGCAGTGTAGCAGCCGTG
CTTCAAAGTGACCACGGACGCAGGTTACGATGGGAGAAAGGATCGGCGAATTAAGCAAGAGTCCGAAGAACC
CCCCACAAAAAGAACCGGATGCAGCTTTCGGATGATGAAGGCCATTTCACTAGCAGTGACCTGATCAGCTCCCC
GTTCTGGGCCCACACCCACACCAGCCTCTTTCTGCCTGCCCTTCTACCTGATCCCACTTCAGCGACTGCCTA
CTTGGCCATGCTGGAGAAGTGCTGGTATCCCACTCAGTGCCAGTGCTATACCCAGGCCTCAACGCCTCTGCCGC
AGCCCTCTCTAGCTTCATGAACCCAGACAAGATCTCGGTCCCTTGCTCATGCCCCAGAGACTCCCTTCTCCCTT
GCCAGCTCATCCGTCGTCGACTCTTCTGTCTTGCTCCAAGCTCTGAAGCCAATCCCCCTTTAAACTTAGAAAC
CAAAGACTAAACICTCTAGGGGATCCTGCTGCTTTGCTTTCTTCTCGCTACTTCTTAAAGCAACAAAAAAG
TTTTTGTGAATGCTGCAAGATTGTTGCATTGTGTATACTGAGATAATCTGAGGCATGGAGAGCAGATTACAGGGTG
TGTGTGTGTGTGTGTGTGTGTATGTGCGTGTGCGTGACATGTGTGCCTGCGTGTGGTATAGGACTTTAAAG
CTCCTTTTGGCATAGGGAAGTCACGAAGGATTGCTTGACATCAGGAGACTTGGGGGGGATTGTAGCAGACGCTG
GGCTTTTCCCCACCCAGAGAATAGCCCCCTTCGATACACATCAGCTGGATTTCAAAGCTTCAAAGTCTTGGTC
TGTGAGTCACTCTTCAGTTTGGGAGCTGGGTCTGTGGCTTTGATCAGAAGGTAATTTCAAAGAGGGGCTTTCCAG
GGCTCAGCTCCCAACCAGCTGTTAGGACCCACCCCTTTTGCTTTATTGTGACGTGACTCACCAGACGTCGGGG
AGAGAGAGCAGTCAGACCGAGCTTTCTGCTAACATGGGGAGGTAGCAGGCACCTGGCATAGCACGCTAGTGGTTTG
GGGAGGTTTCCGCAGGTCTGCTCCCCACCCCTGCCTCGGAAGAATAAAGAGAATGTAGTTCCCTACTCAGGCTTT
CGTAGTGATTAGCTTACTAAGGAAGTAAAAATGGGCCCTTGTACAAGCTGAGCTGCCCGGAGGGAGGGAGGAG
TTCCCTGGGCTTCTGGCACCTGTTTCTAGGCCTAACCATTAGTACTTACTGTGACGGGAACCAACCAAGGTCTG
AGAAATGCGGACACCCCGAGCGAGCACCCCAAAGTGCACAAAGCTGAGTAAAAAGCTGCCCCCTTCAAACAGAAC
TAGACTCAGTTTTCAATCCATCCTAAACTCCTTTTAAACAGCTTACTGCTTCAAGGCCTAACCAAGCCTTG
GCACCGCCAGATCCTTCTGTAGGCTAATTCCTCTTGCCCAACGGCATATGGAGTGTCTTTATTGCTAAAAAGGA
TTCCGTCCTCCTTCAAAGAAGTTTTATTTTGGTCCAGGTAAGTGTGTTTTCCGATGTGTCCAGCCAGCTCCGCAG
CAGCTTTTCAAATAGCACTATGCCTGATTGCTGATCGTGTTTTAACTTTTTCTTTTCTGTTTTTATTTTGGTAT
TAAGTCGTTGCCTTTATTTGTAAAGCTGTTATAAATATATATTATATAAATATATTAATAAAGGAAATGTTTCAG
ATGTTTATTTGTATAATTAATTGATTACACAGTGAGAAAAATGAATGTATTCTGTTTTTGAAGAGAAGAATA
ATTTTTTTTTTCTCTAGGGAGAGGTACAGTGTTTATATTTTGGAGCCTTCTGAAGGTGTAAATTTGTAAATATT
TTTATCTATGAGTAAATGTAAAGTAGTTGTTTTAAATACTTAATAAATAATTCTTTTCTGTGGAAG

1119/6881
FIGURE 1043

GCGGCTTCCGGCGGCGTGACCTGACCGCAAGAGGCCAATGGAGTGTGGGAGCTGAAAGGGTCTTCGCTGGCGGCC
GGTAACTGGCGGCGGTTGGGAACGGCCGAGTGTGGCTCTTCTGGTGTTCAGCTTGGGGAGAGAGGGGTGGCCCT
CCTCTTGCAAGTTGAGGCCGGCGCCGAGCCGGACTTCAGGCGGATCTCGTGGCGGAGCCCATCTTGCTCCCTCTCC
CAGGCCCTTTACCCGCTCCCTAGGATTCCCGGGCCCTGTAGGTGGGAGTTGGGAGACGACAGTACTGCTTTTAAAG
AGACAGTGTTAGGATCTTGGGAAGCACAGCCAACATGTGTGACATTGAAGAAGCCACTAACCAACTCCTAGATGT
GAACCTTCATGAGAACGAGAAGTCTGTACAAGTGACAGAAAGTGACCTCGGAAGTGAATCTGAGCTTCTAGTCAC
TATTGGAGCCACTGTACCTACTGGCTTTGAGCAAACAGCTGCAGATGAAGTCAGAGAGAACTTGGGTCATCATG
CAAAATCAGCAGAGACCGTGGCAAGATATATTTTGTCAATTCAGTGGAAAGTCTGGCACAGGTTTATTGTCTGAG
ATCAGTTGATAACTTATTTGTGGTGGTTCAGGAGTTTCAAGATTACAGTTCAAACAAACAAAGGAAGAAGTTCT
AAAGGATTTTGAAGACTTGGCTGGAAACTCCCATGGTCAAACCCCTTAAAGTGTGGAAATTAATGCCAGTTT
TAAAAAGAAAAAGCAAAGCGCAAAAGATAAATCAGAATTCAGTAAAGAGAAGATTAATAATGGACAAGAAGT
CAAAATCGATCAGAGAAATGTTAAAAAGAGTTCACTAGCCATGCTTTAGATTCTCATATCTTAGATTATTATGA
AAATCCAGCCATCAAAGAGGATGTATCAACATTAATAGGTGATGATTGGCATCTTGCAAAGATGAGACTGATGA
AAGCTCAAAAGAAGAACTGAGCCTCAAGTGTGAAGTTAGAGTCACATGCAACAGGGCAGGAGAGAAACATTG
CTTTACCTCAAATGAGGCTGCAAGAGATTTTGGGGTGTGTTCAAGATTATTTAAGTGGAGGCCGACATGAC
CAACTTTGATGTGGAGGTTCTTTTGAACATCCATGATAATGAAGTCATTGTGGGCATTGCATTGACTGAAGAGAG
TCTCCACCGAAGAAATATAACACATTTTGGACCTACAACCTCTTAGATCAACTCTTGCCATATGGGATGCTCAGGCT
CTGTGATCCTCTACCTTATGATATAATAGTCGATCCAATGTGTGGAACGGGGCAATACCAATAGAGGGGGCCAC
TGAATGGTCTGACTGTTTCCATATTGCTGGTGATAATAATCCACTGGCTGTGAATAGAGCAGCAAATAACATTGC
ATCTTTATTGACCAAGAGCCAAATTAAGAAGGCAAACCTCCTGGGGCTTGCCCATAGATGCTGTTCAGTGGGA
TATCTGCAATCTGCCGTTGAGAACTGGCTCTGTGGATATTATTGTAACAGATTGCCATTTGGAAAAAGGATGGG
ATCCAAGAAGAGAACTGGAACCTTTATCCAGCTTGCCCTACGCGAGATGAGCCGTGTCTGCACACCTACCACAGG
CCGAGCTGTACTACTTACTCAAGACACAAAATGCTTTACCAAGGCGTTATCTGGAATGCAACAGTATGGCGAAA
GGTGGATACAGTCTGGGTGAACGTTGGTGGTCTTCGTGCTGCAGTTTACGTTCTGATACGTACACCTCAAGCTTT
TGTTATCCTTCAGAACAGACGGAGAAAGAGGAACTCTTTGGCAATGCAAAGAAATGAAGATGACTAATAGTACT
TGTACTTCCCACCACTGGAAATGTTAGCATAAAAGAACTTGAGAGGAAAAAGTATTAACAAAACCTGCAGTCTG
CACTCTTTAAACCTGTTTAAGGCTCTTCATCCTGGTTAGCAAAAGGTGTGAATGTAATGTGATGGAATTTAAAG
TTTTATGAGACCAGGCACAGTGGCTCACGACTGTAATTCAGCAGTTTAGGAAGCCGAAGTGTGCAGATCACCTG
AGGTCCGGAGACCAGCCTGGCCAACATGGTGAAACCTGTCTCTACTAGAAATACAAAATTAGCCAGGTGTGGT
GGCGGGCGCCTGTAATCCCACTACTCAGGAGGCTGAGGCTAGAGAATCACTTGAACCCAGCAGGCGGAGGTTGC
GGTGAGTCGAGATCACGCCATTGCACTCCAGCCTGTGCGACAAGAGCGAACTCTGTCTCAAAAAGATTTTATAA
GAAAGCAGAGCTTTTCTTGAAGCTCTTTTGAAGTGGTAGCTTAATTAGTATTTTGTGAAATACTTTAAAGAT
GCCTAGTGAAAGCCTACTAAAGTGTGTGAGATTGGGGTTTAGAACATTTTATTTTCAGGCTTTATGGCCTATT
TTCCATTGTGTCAAGTGCAAACTACCCTGGCCCAAAGGAAGGGCAGAGAACATAATTACATCTTAGGCCACATT
TCATTCTTTGCAGCTTTTGCTAATCCAGTTGCTCAAGTTCTTTACCTCAACCTGAAGGAATGAAGCATTATTACAT
TTTGTGAATGGTGTTCAGCCTATAAGACGAAGTCTCACAAGACCTATAGGAAAGTTTACCATCTGCCTAAATATT
AAAATATCCATCTGTTATTCATTAATACACAGAATGAAAATAGAGGTCTAGGAATTATCAAAGGTACTGCAAA
AATACTGTATAGAATTTATTGTAAATAGCACATACATTGATAGATGGGGTGTGGGACCAACAAACCAATTA
AGAAATTGTTTTCTTTTCACTACACTAAGGTGTGTGTTTTCAAACC

1120/6881
FIGURE 1044

MCDIEEATNQLLDVNLHENQKSVQVTESDLGSESELLVTIGATVPTGFEQTAADEVREKLGSSCKISRDRGKIYF
VISVESLAQVHCLRSVDNLFVVVQEFQDYQFKQTKEEVLKDFEDLAGKLPWSNPLKVWKINASFKKKKAKRKKIN
QNSSKEKINNGQEVKIDQRNVKKEFTSHALDSHILDYYENPAIKEDVSTLIGDDLASCKDETDSSKEETEPQVL
KFRVTCNRAGEKHCFTSNEAARDFGGAVQDYFKWKADMTNFDVEVLLNIHDNEVIVGIALTEESLHRRNITHFGP
TTLRSTLAYGMLRLCDPLPYDIIIVDPMC GTGAIP IEGATEWSDCFHIAGDNNPLAVNRAANNIASLTKSQIKEG
KPSWGLPIDAVQWDICNLPLRTGSVDIIIVTDLPFGKRMGSKKRNNLYPACLREMSRVCTPTTGRAVLLTQDTKC
FTKALSGMQHVWRKVDTVWVNVGGLRAAVYVLIRTPQAFVHPSEQDGERGTLWQCKE

1121/6881
FIGURE 1045

GCAGGCAGGTGCCATGGGCCCGCTTGAGGCACACTGAGGGGACGCGGGGCTGGGCCATGGCCGGCGCTCGGGCCG
CCGCCGCCGCTGCCTCGGCGGGGTCTCGGCCTCTTCAGGCAACCAGCCGCTCAGGAGCTGGGGCTTGGGGAGC
TGCTGGAGGAGTTCTCCCGGACTCAGTACCGGGCCAAGGATGGCAGCGGGACCGGCGGCTCTAAGGTTGAGCGCA
TTGAGAAGAGATGTCIGGAGCTGTTTGGCCGAGACTACTGTTTCAGCGTGATTCCAAACACGAATGGGGATATCT
GTGGCCACTATCCCCGGCACATCGTGTTCCTGGAGTATGAGAGTTCTGAGAAGGAGAAAAGACACGTTTGAGAGTA
CCGTACAGGTGAGCAAGTTGCAAGACCTCATCCACCGCAGCAAGATGCGCCGGTGCAGAGGACGGTTTGTCTGCC
CAGTAATCCTGTTCAAGGGCAAGCACATTTGCAGGTCGCCACACTGGCTGGATGGGGAGAGCTGTATGGACGCT
CAGGCTACAACATATTTTTTCTCAGGGGGTGAGATGATGCCTGGGCAGATGTGGAGGACGTACGGAGGAGGACT
GTGCTCTTCGAAGTGGTGACACGCATCTTTTTGATAAGGTGAGAGGCTATGACATCAAGCTGCTTCGATACCTGT
CAGTCAAATACATCTGTGACCTGATGGTGGAGAACAAGAAGGTGAAGTTTGGCATGAATGTAACCTCCTCTGAGA
AGGTGGACAAAGCCCAGCGCTATGCCGACTTCACTCTCCTCTCCATCCCGTATCCAGGCTGTGAATTTTCAAGG
AATATAAGATCGGGATTACATGGCAGAAGGGCTCATATTTAACTGGAAGCAGGACTACGTTGATGCCCCATTGA
GCATCCCCGACTTCTGACTCACTCTCTGAACATTGACTGGAGCCAGTATCAGTGTTGGGATCTGGTGCAACAAA
CACAAAACCTACCTGAAGCTGCTGCTTTCCTTAGTTAACAGTGATGATGACAGCGGGCTGCTGGTACACTGTATCT
CAGGCTGGGATCGGACCCCCCTCTTCATCTCCCTCTGCGCCTTTCCTTGTTGGGCTGATGGGCTCATCCACACGT
CCCTGAAGCCCACTGAGATCCTCTACCTCACTGTGGCCTATGACTGGTTCCCTCTTCGGGCACATGTTGGTAGATC
GGCTCAGCAAAGGGGAGGAGATTTTCTTCTCTGCTTCAATTTTTTGAAGCATATTACCTCCGAGGAGTTCTCTG
CTCTGAAGACCCAGAGGAGGAAGAGTTTGCCAGCCCGGATGGAGGCTTACCCTGGAAGACATCTGCATGCTGA
GACGAAAGGACCGTGGCAGCACCACCAGCCTTGGCAGCGACTTCTCCCTGGTCATGGAGAGTTCCCCAGGAGCCA
CTGGGAGCTTACCTATGAGGCCGTGGAGCTGGTCCCAGCAGGAGCGCCAACTCAGGCAGCTTGGCTTGCAGCCC
TGAGTGATCGAGAGACTCGGCTGCAGGAGGTGCGCTCAGCCTTCTTGGCTGCGTACAGCAGCACAGTGGGGCTTC
GGGCAGTAGCCCCAGTCCTTCCGGTGCCATCGGGGGCTGCTGGAGCAATTTGCCCGTGGTGTGGACTCCGGA
GCATCAGCAGCAATGCCTTGGAAGAAGCCAGCCCATGACATTTTCTGCTCCTCTCTCAGCTGAGCCCTTAGCA
GAGAATCAAAGCCATGCCTGGCCGAAGGGGTACTTCCAGGTGAGGGGAAATTTAGTCCCCCATCTCCATCATGA
ACATGGCAGCCCCAAAGCTGAGCAAGGCCAAAGACAGGGTTTTTCAACCCCCAGCCTCTTGACTGGTGACCACCA
CCCCCTTCTGTACTGTCTCCACCCACCCCATCTTTGCTGGGATTCCCATCAACTCTCAGAACTGTGTGGGGTT
TCCCTGGGGCCTTGTGGAAGCCATGACTTCACAAAGACCCTACCTGTCAAGTTCTTGTCTGGGGAGGAGGGATC
ACCTGCACTGAGAATGAGGCAGTTTGACACAGATCACAAAATAAATCAAAGTCTTTTTGAAAAAAAAAAAAAA
AAA

1122/6881

FIGURE 1046

MARCRGRFVCPVILFKGKHICRSATLAGWGELYGRSGYNYFFSGGADDAWADVEDVTEEDCALRSGDTHLFDKVR
GYDIKLLRYLSVKYICDLMVENKKVKFGMNVTSSEKVDKAQRYADFTLLSIPYPGCEFFKEYKDRDYMAEGLIFN
WKQDYVDAPLSIPDFLTHSLNIDWSQYQCWDLVQQTQNYLKLLSLVNSDDDSGLLVHCISGWDRTPLFISLLRL
SLWADGLIHSTLKPTEILYLTVAYDWFLFGHMLVDRLSKGEEIFFFCFNFLKHITSEEFSAKLTQRRKSLPARDG
GFTLEDICMLRRKDRGSTTSLGSDFSLVMESSPGATGSFTYEAVELVPAGAPTQAAWLAALSDRETRLQEVRSF
LAAYSSTVGLRAVAPSPSGAIGLLEQFARGVGLRSISSNAL

1123/6881
FIGURE 1047A

CCGGACTCGAGGTGGCCGATGTGACAGCATGGGGGTGGACTTTGATGTGAAGACTTTCTGCCACAACCTTGGCGGC
GACTAAGCCACCATAACGAGTGCCCGGTGGAGACCTGCCGAAAGGTCTACAAGAGTTACAGTGGTATTGAGTACCA
CCTGTACCACTATGACCACGACAACCCACCACCCCAACAACAACTCCACTCCGCAAGCACAAGAAAAAGGGGCG
CCAGTCACGCCCAGCCAACAAGCAGTCACCCAGCCCCCTCAGAGGTCTCACAGTCACCAGGCCGTGAGGTGATGAG
CTATGCACAGGCCACGCGCATGGTGGAGGTGGACTTGCATGGCCGCGTCCACCGCATCAGCATCTTTGACAACCT
GGATGTGGTGTGAGAGGATGAGGAAGCCCCGAGGAGGCCCTGAGAATGGCAGCAACAAGGAGAACTGAGAC
ACCAGCTGCTACTCCCAAGTCAGGCAACATAAGAACAAGGAGAAGCGCAAGGACTCCAACCATCACCACCACCA
CAATGTTTTCTGCGAGCACCCTCCCAAGCTGCCAGAGGTGGTCTATCGGGAGCTGGAACAGGACACCCTGATGC
CCCACCCCGGCCAATCTCTATTACCGGTACATCGAGAAGTCTGCAGAGGAGCTGGACGAGGAAGTAGAGTATGA
CATGGACGAGGAGGACTACATCTGGCTGGATATCATGAATGAGCGTCGGAAGACAGAGGGTGTAACTCCCATCCC
GCAGGAGATCTTTGAGTACCTAATGGACCGACTGGAGAAGGAGTCGTACTTTGAGAGTCATAATAAGGCGACCC
TAATGCGCTAGTGGACGAGGATGCTGTTTGTGTATCTGCAATGATGGTGAGTGCCAGAACAGCAATGTCTATCCT
CTTCTGTGACATGTGCAACCTGGCCGCTGCACAGGAGTGCTACGGTGTCCCTATATCCCTGAGGGCCAGTGGCT
GTGCCGCCGTTGCTGAGTCACCCCTCTCGTGTGTGGATTGTGCCCTGTGCCCCAACAAGGGCGGTGCCCTTCAA
GCAGACAGATGACGGGCGCTGGGCCCCATGTGGTGTGTGCCCTGTGGATCCCTGAGGTCTGCTTCGCCAACACGGT
CTTCCTAGAGCCTATTGACAGCATTGAGACATCCCACCAGCTCGCTGGAAGCTCACCTGCTACATTGCAAAACA
ACGGGGCTCAGGGGCGCTGCATCCAGTGCCACAAGGCCAAGTGTACACAGCTTTCCATGTGACATGCCCCAGCA
GGCTGGCCTTTACATGAAGATGGAGCCTGTGCGGGAGACAGGCGCCAACGGCACCTCTTCAGTGTCCGCAAGAC
AGCCTACTGCGACATCCACACGCCTCCAGGTTGAGCAGCGCGACTGCCTGCCCTGTCCACAGCGAGGTGAGGA
GGATGAAGATGAGGAGGAGGATGAGGGTAAGGGCTGGAGCTCAGAGAAAGTCAAGAAGGCCAAGGCCAAGTCCCG
GATCAAAATGAAGAAGGCACGGAAGATCCTGGCAGAGAAGCGGCAGCAGCACCTGTGGTGTGCTGAGTGCCTGCAT
CCCACCACACAGGCTTAGTAAATACCAACCGCCTGACCATCCAAAGGAAGAGCCAGTTCATGACAGAGGCTGCA
CAGCTACTGGACACTGAAGCGGCAGTCACGGAATGGGGTCCCATTGCTACGTGCGCTGCAGACACACCTGCAATC
TCAGAGGAAGTGTGACCAAGTTGGGAGAGATTCTGAGGATAAGAACTGGGCCCTTAAAGAACAGCTCAAGTCTCTG
GCAGCGGCTCCGGCATGACTTGGAGCGAGCTCGGCTGCTCGTGAATTGATCCGCAAGCGGGAAAAACTCAAAAG
GGAGACGATCAAGGTTGAGCAGATTGCCATGGAGATGCAGCTGACTCCTTTCTCATCCTCCTTCGCAAAACCTT
GGAGCAGCTCCAAGAGAAGGACACAGGCAACATCTCAGCGAGCGGCTCCCTCTGTCTGAGGTACCTGACTACCT
AGACCACATCAAAAAGCCCATGGACTTTTTACCATGAAGCAGAACTTGGAGGCTTACCGCTACCTGAATTTTGA
TGATTTTGAGGAGGACTTCAACCTCATCGTCAGCAACTGCCTCAAGTATAACGCCAAGGACACCATCTTCTACCG
GGCAGCAGTGC GGCTTCGTGAGCAGGGTGGTGTGTGCTCCGCCAGGCGCCAGGCAGAAAAAATGGGCAT
TGACTTTGAGACGGGCATGCATATCCCCACAGCCTGGCTGGAGATGAGGCCACACACCACACTGAAGATGCAGC
CGAGGAAGAGCGGCTGGTCTTGTGAGGAACAGAACCTGCCAGTGAAGAAGAGCTAAAGCTGCTTCTGGA
GCGGCTGGACGAAGTGAATGCCAGCAAGCAGAGTGTGGGCCGCTCACGGCGTGCAAGATGATCAAGAAAGAGAT
GACGGCACTGCGGCGGAAGCTTGCCCATCAGCGAGAGACGGGACGTGATGGCCCTGAGCGGCATGGCCCTCGAG
CCGGGGTAGTCTGACACCCACCCGGCAGCCTGTGACAAGGATGGGCAGACAGATAGTGGCGCAGAGGAGAGCAG
CAGCCAGGAGACAAGCAAAGGCCCTGGGTCCCCAACATGTCTCAACCCCGCACATGAGGTGGGCAGGAGAACCTC
AGTTCTGTTCTCCAAAAAGAACCCGAAGACAGCTGGACCGCCCCAAGAGGCCGGGCCGCCCCCAAAAACCGGGA
GAGCCAGATGACCCCAAGCCACGGAGGCAGTCTGTGGGGCCCCCAGCTCCCCATCATGAGTTCCCTGCGTCA
GCGCAAGCGGGGTAGGAGCCCCCGGCCAGTTTCGAGCTCAGACAGCGACAGTGATAAGTCCACAGAAGACCCCC
AATGGACTTACCAGCCAATGGCTTCAGCGGTGGAACCAACCAGTGAAGAAGAGTTTCTTGGTATACCGTAATGA
CTGCAGCCTTCCCCGAGCAGCTCAGACTCTGAGTCCAGCAGCAGTAGCAGTAGCAGCGCTGCTTCAGACCGGAC
CAGCACAACGCCCTCAAAACAAGGCCGGGGCAAAACCTCTTCTCTCGGGGCACTTTCCAGAGGACAGCAGTGA
GGATACCTCAGGCACTGAGAATGAGGCCTACTCCGTGGGCACTGGCCGCGGCGTGGGCCACAGCATGGTAAGGAA
GAGTCTGGGCGGGGAGCTGGCTGGCTGTGAGGATGAGGACTCCCCGCTGGATGCTCTGGACCTCGTGTGGGC
CAAATGCCGAGGCTATCCATCATACCCAGCTCTGATCATTGATCCAAAGATGCCCCGAGAAGGTATGTTCCACCA
TGGGGTTCCCATCCCTGTGCCCCCACTGGAGGTGCTGAACTTGGGGAGCAGATGACCCAGGAAGCCCGAGAGCA
TCTCTACCTCGTCTCTCTTTGACAACAACGAACCTGGCAGTGGCTGCCAGGACCAAGCTGGTTCTCTGGG
TGTGAACCAGGACCTAGACAAGGAGAAGATGCTGGAGGGCCGCAAGTCCAACATCCGCAAGTCAGTACAGATCGG

1124/6881

FIGURE 1047B

CTACCACAGGGCTCTGCAGCACCGCAGCAAGGTGCAAGGCGAGCAGAGCAGTGAGACCAGCGATAGTGATTGATA
CTGCTCAACACAGCCCAACCTATAGTGCCCTGTGACTTCTCTCCTCCCCCTTTGCTCACTGTCCTGGAGTGGCACC
GGCCTCTGCACTGACTCATTCTGGTCTTGGGGCCAGTCTCAGGGGAAGCTGGGTGGGGGAGGTCCCTCCTGCCC
TAAGTGCAGCTGGACTGTACAGAACAACCTCCAAGGGCCAATGGCAGTTCAGCGCAAGGAGAGGGAGGGCCACAGG
TCAGAAAAAGCTCCAGAGACCTCACAGCATTGTAGGGCGGGGTGGTGGGCCAAAGTTAGGACACTGCGTAAAAACA
GGCCATCCCACCACCTCTACCTGCTCATGCCAGGAGAATCCATAACTGCCTAGAGGCCTGGGGCCCCTACCGGTC
GTGAGGTGAGTGGGCATCTGTCCAGCCTGGAAGAGGGGCACTAGGTGACTCCCTCCCCTGCTGTTGTAAATACTG
TAATTATCGGAGAATTTAAATTATTCTCATTGTAACTGCGTTTCCGGGTCGCGCCAGAGTCATTGGTACTAAA
AAAAAAAAAAAAAAGACTGGGGGCTGTCCCCATTTCCCTTCTCTTTCCCATAGATTCCCCCACCTTTCAAACCTG
GTTTGTATTTATTTCAAAGGAAGAAAATATATTGATTCTTAGAAAAATAA

1125/6881
FIGURE 1048

MGVDFDVKTFCNHLRATKPPYECPVETCRKVYKSYSGIEYHLYHYDHDNPPPPQQTPLRKHHKKKGRQSRPANKQS
PSPSEVSQSPGREVMSYAQAQRMVEVDLHGRVHRISIFDNLDVVSEDEEAPPEEAPENGSNKENTETPAATPKSGK
HKNKEKRKDSNNHHHHHNVSASTTPKLPÉVVYRELEQDTPDAPPRPTSYRYIEKSAEELDEEVEYDMDEEDYIWL
DIMNERRKTEGVSPIPQEIFEYLMRLEKESYFESHNGDPNALVDEDAVCCICNDGECQNSNVILFCDMCNLAV
HQECYGVPIYIEGQWLCCRCLQSPSRAVDCALCPNKGGAFFKQTDGGRWAHVVCALWIPEVCFANTVFLEPIDSIE
HIPPARWKLTCYICKQRGSGACIQCHKANCYTAFHVTCQQAGLYMKMEPVRETGANGTSFSVRKTAYCDIHTPP
GSARRLPALSHSEGEDEDEDEDEEGKGSSEKVKKAKAKSRIKMKKARKILA EKRAAAPVVSVPCIPPHRLSKIT
NRLTIQRKSQFMQRLHSYWT LKRQSRNGVPLLRRLQTHLQSQRNCDQVGRDSEDKNWALKEQLKSWQRLRHDLER
ARLLVELIRKREKLKRETIKVQQIAMEMQLTPFLILLRKLTLEQLQEKTGNIFSEPVPLSEVPDYLDHIKKPMDF
FTMKQNL EAYRYLNFDDFEEDFNLI VSNCLKYNAKDTIFYRAAVRLREQGGAVLRQARRQAEKMGIDFETGMHIP
HSLAGDEATHHTEDAAEEERLVLENQKHLPVEEQLKLLERLDEVNASKQSVGRSRRAKMIKKEMTALRRKLAH
QRETGRDGPERHGPSSRGS LTPHPAACDKDGQTD SAAE SSSQETSKGLGPNMSSTPAHEVGRRTSVLFSKKNPK
TAGPPKRPGRPKNRESQMTPSHGGSPVGPPQLPIMSSLRQRKRGRSPRPSSSSSDSDKSTEDPPMDLPANGFS
GGNQPVKKSFLVYRNDCSLPRSSSDSESSSSSSSSAASDRTSTTPSKQGRGKPSFSRGTFFPEDSSSEDTSGTENEA
YSVGTGRGVGHSMVRKSLGRGAGWLSEDEDSPLDALDLVWAKCRGYPSYPALIIDPKMPREGMFHHGVP IPVPPL
EVLKLGEQMTQEAAREHLYLVLF FDNKRTWQWLPRTKLVPLGVNQDL DKEKMLEGKSNIRKSVQIAYHRAHQHRS
KVQGEQSSETSDSD

1126/6881
FIGURE 1049

GTACCCCCATCCTTTCTCTCGCCCTCCTACCCGCAGCTCCTGGCGCTCGGCGGGGCTAACTGCAGCGCGGAGAT
CTCGGCCGCCAAGCTCCGCTCCCGCCCCGGGCTGTGCCCCGGGGCTCGCCTGAGGCCGACCACCCGCACCCAC
CTCTAGCGGCTTTGCTCGAGGCCCCACCTTCTTCCACCCCCGGCAAACCTCCAGTAGGCTCGCCCTCGCTGACTCC
CCGCCCCCGCGTCAACTGCAAGGGGCCCCGCCATAGCCAGTTCGGGGCGGTTGCTCACATCGACCGGAACTCCC
CGCCCCCTCCCGCGGCCCTGGGGCCGTAGGAGGCCGACGAGGAGGTAGAGGGGGCGGGGTTCGCACTAGGGT
GTCCCTAGAGAACGAGGACTCTGAAGGCGGGACATTTGGGCGACCCCCGGGCGGGGCCAGCCATTAAACAGTCCC
ACTTCTGTGCCAGACACTGAACTGGGCTCTTGACGGGCATCATCTCTTAATCCTCAGAACATCCCAGGGAGCTCC
ACAGGATCCCCATATCCTGGGCCATGAGTGAGTTGAAAGACTGCCCTTGCACTTCCACGACTTCAAGTCTGTGG
ATCACCTGAAGGTCTGTCCCCGCTACACGGCAGTGCTGGCACGCTCTGAGGATGATGGCATCGGCATCGAGGAGC
TGGACACCTGCGAGCTGGAGCTGGAGACCTGCTGTCTTCTGCCAGCCGGCGCTGCGTGTGCTTGAGGCCGAAA
CCCAGATCCTCACCGACTGGCAGGATAAGAAAGGTGACAGACGATTCTGAAGCTGGGTCGAGACCATGAACCTG
GAGCTCCCCCAAACATGGGAAGCCCAAGAAGCAGAACTGGAAGGGAAGGCAGGACATGGGCCGGGCCCTGGCC
CAGGACGCCCCAAATCCAAAAACCTTCAGCCCAAGATCCAGGAATATGAATTCAGTGATGACCCTATCGACGTGC
CACGGATCCCCAAAAATGATGCCCCAACAGGTTCTGGGCTTCAGTGAGCCCTACTGTGCTGACATCACACGCG
AGGAGGTCCGCACACTTGAGGAGTTACTGAAGCCCCAGAAGATGAGGCTGAGCATTACAAGATCCCACCCCTGG
GGAAGCACTACTCCAGCGCTGGGCCCAGGAGGACCTGCTGGAGGAGCAGAAGGATGGGGCCCGGCAGCGGCTG
TGGCTGACAAGAAGAAAGGCTCATGGGGCCACTGACCGAACTGGACACTAAAGATGTGGATGCCCTGCTGAAGA
AGTCTGAGGCCCAGCATGAACAGCCGGAAGATGGATGCCCTTTGGTGCCCTGACGCAGCGCCTCCTGCAGGCCC
TGGTGAGGAAAAATATTATTTCCCTATGGAGGATTCTCCTATTCTGACATGTCTGGGAAAGAATCAGGGGCTG
ACGGGGCAAGCACCTCCCCTCGCAATCAGAACAGCCCTTCAGTGTGCCGCATACTAAGTCCCTGGAGAGCCGCA
TCAAGGAGGAGCTAATTGCCCAGGGCCTTTTGGAGTCTGAGGACCGCCCCGAGAGGACTCCGAGGATGAGGTCC
TTGCTGAGCTTCGCAAACGGCAGGCTGAGCTGAAGGCACCTAGTGCCCAACCGCACCAAGAAGCACGACCTGC
TGAGGCTGGCAAAGGAGGAGGTGAGCCGGCAGGAGCTGAGGCAGCGGGTGCGCATGGCTGACAACGAGGTCATGG
ACGCCTTTCGCAAGATCATGGCTGCCCCGGCAGAAGAAGCGGACTCCCACCAAGAAAGAAAGGACCAGGCCTGGA
AGACTCTGAAGGAGCGTGAGAGCATCCTGAAGCTGCTGGATGGGTAGCCCTCACCCCTGCCTCAGGCTGATTATC
TGGCCTAGGGGAGGGGAAGGGAGGCCCACTTCCTTCTTTGGGCACAGGAAACATTGGCCTGTGGCTGTCCCTCAA
ATGGCGGCAGTCTCTAGAGGGCCGTGGCCCTTCCCCTGAGGTCTTTTGGCCTAGCTCTGTACAACCAGGACACAG
GAAGCCCTGCTGGGCTAGCCTGAGGCCTAGTCTCTGCTTGGTCCCCGAGATGGGGTTGGAGGGGACTTCGTTTCT
GGGTCTTCTCTTCCCCTCTTTACCATCCCCCACTCCCTAATCCCTACCCCTGTCTCCCCTTCAAGGACTTCTC
CCTTGIGGTTTTGTAAAGTGCAAACTTAAGAATAAAGTGACTGCTGTGGTTTTTCAAAAAAAAAAAAAA

1127/6881
FIGURE 1050

MSELKDCPLQFHDFKSV D H L K V C P R Y T A V L A R S E D D G I G I E E L D T L Q L E L E T L L S S A S R R L R V L E A E T Q I L T D W Q
D K K G D R R F L K L G R D H E L G A P P K H G K P K Q K L E G K A G H G P G P G R P K S K N L Q P K I Q E Y E F T D D P I D V P R I P K N D A
P N R F W A S V E P Y C A D I T S E E V R T L E E L L K P P E D E A E H Y K I P P L G K H Y S Q R W A Q E D L L E E Q K D G A R A A A V A D K K K G L
M G P L T E L D T K D V D A L L K K S E A Q H E Q P E D G C P F G A L T Q R L L Q A L V E E N I I S P M E D S P I P D M S G K E S G A D G A S T S P R
N Q N K P F S V P H T K S L E S R I K E E L I A Q G L L E S E D R P A E D S E D E V L A E L R K R Q A E L K A L S A H N R T K K H D L L R L A K E E V
S R Q E L R Q R V R M A D N E V M D A F R K I M A A R Q K R T P T K K E K D Q A W K T L K E R E S I L K L L D G

1128/6881
FIGURE 1051

GTACCCCCATCCTTTCTCTCGCCCCCTCCTACCCGCAGCTCCTGGCGCTCGGCGGGGCTAACTGCAGCGCGGAGAT
CTCGGCGCGCAAGCTCCGCCTCCCGCCCCGGGCTGTGCCCCGGGGCTCGCCTGAGGCCGACCACCCGCACCCAC
CTCTAGCGGCTTTGCTCGAGGGCCACCTTCTTCCACCCCCGCAAACTCCAGTAGGCTCGCCCTCGCTGACTCC
CCGCCCCCGCGTCAACTGCAAGGGGGCCCGCCATAGCCAGTTCCGGGGCGGTTGCTCACATCGACCGGAATCCC
CGCCCCCTCCCGCGGCCCTGGGGCCGTAGGAGGCCGAGCGAGGAGGTAGAGGGGGCGGGGGTCCGACTAGGGT
GTCCCTAGAGAACGAGGACTCTGAAGGCGGGACATTTGGGCGACCCCCGGGCGGGGCCAGCCATTAAACAGTCCC
ACTTCTGTGCCAGACACTGAACTGGGCTCTTGACGGGCATCATCTCTTAATCCTCAGAACATCCCAGGGAGCTCC
ACAGGATCCCCATATCCTGGGCCATGAGTGAGTTGAAAGACTGCCCCCTTGCACTTCCACGACTTCAAGTCTGTGG
ATCACCTGAAGGTCTGTCCCCGCTACACGGCAGTGCTGGCACGCTCTGAGGATGATGGCATCGGCATCGAGGAGC
TGGACACCCTGCAGCTGGAGCTGGAGACCCTGCTGTCTTCTGCCAGCCGGCGCTGCGTGTGCTTGAGGCCGAAA
CCCAGATCCTCACCGACTGGCAGGATAAGAAAGGTGACAGACGATTCTGAAAGCTGGGTCGAGACCATGAACCTG
GAGTCCCCCCCCAAACATGGGAAGCCCAAGAAGCAGAACTGGAAGGGAAGGCAGGACATGGGCCGGGCCCTGGCC
CAGGACGGCCCCAAATCCAAAAACCTTCAGCCCAAGATCCAGGAATATGAATCACTGATGACCTATCGACGTGC
CACGGATCCCCAAAAATGATGCCCCAACAGGTTCTGGGCTTCAGTGGAGCCCTACTGTGCTGACATCACACGCG
AGGAGGTCCGCACACTTGAGGAGTTACTGAAGCCCCAGAAGATGAGGCTGAGCATTACAAGATCCCACCCCTGG
GGAAGCACTACTCCAGCGCTGGGCCCAGGAGGACCTGCTGGAGGAGCAGAAGGATGGGGCCCGGCAGCGGCTG
TGGCTGACAAGAAGAAAGGCTCATGGGGCCACTGACCGAACTGGACACTAAAGATGTGGATGCCCTGTGTAAGA
AGTCTGAGGCCCAGCATGAACAGCCGGAAGATGGATGCCCTTTGGTGCCCTGACGCAGCGCCTCCTGCAGGCC
TGGTGGAGGAAAATATTATTTCCCTATGGAGGATTCTCCTATTCTGACATGTCTGGGAAAGAATCAGGGGCTG
ACGGGGCAAGCACTCCCTCGCAATCAGAACAGCCCTTCAGTGTGCCGCATACTAAGTCCCTGGAGAGCCGCA
TCAAGGAGGAGCTAATTGCCCAGGGCCTTTTGGAGTCTGAGGACCGCCCCGCAGAGGACTCCGAGGATGAGGTCC
TTGCTGAGCTTCGCAAACGGCAGGCTGAGCTGAAGGCACCTTAGTGCCCAACCCGACCAAGAAGCACGACCTGC
TGAGGTGACCGCTTAGCAGGATGCACAGTCCCGGGGGTGGCCTTGAGGCTGTGGCCACGGCTAGTCACCTTTTCAG
GGGTTTTACAACAGGCTTTCCAATCCTGGCTGGCCTCTAAATCACCTGGAGAGCCTCGAAAAAACAGCAGTGGC
CAGTCCACCGGTATGTCCCAACAAATTCTGATTCCACAGAGTGGGGCTCAGGCATCTGTGACTGACCGATTGA
TTTGATTTGTTTTGTTTTGTTTTTTTTTGTAGAGGGAGTCTCGCACTGTCAACCAGGCTGGAGTGCAGTGCCATG
ATCTCGGCTCACTGCAAGCTCCGCCTCCAGGTTGATGCCATTCTCCTGCCTCAGCCTCCTGAGTAGCTGATACT
ACAGGCACCCACCACCGCCAGCTAATTTTTTGTATTTTGTAGAGACGGGGTTTACCCTGTTAGCCAGG
ATGGTCTCGATCTCCTGACCTCGTGATCCACCCGCTCGGCCCTCCAAAGTGCCGGGATTACAGGCGTGAGCCAC
TGCGCCTGGCCTAGTTTGTTTTTAATTATGGTAAAGGCATAATATAAAATGTATCTCCATGGGAGGCTGAGGC
AGGAGAATCAGTTGAACCTGGGAGGCGGAGGTTGCAGTGAGCTGAGACTGCACCATTCAGCTGGGCCAA
CAAGAGTGAACTGCATCTCAAAAAAAAAAAGAAAAAAATTTACGCTTCTTAACCATTTTTTAAGTGTACAGTTT
AGTAGTGTACCCATATTCACATTGTTGTGTGATTTATTTTTTGTCTTTTCATGCTTCTTTTCTTTTATCCCCA
AAGTTTTGTATTAAAAATTTGATACACAGAAAATCTGAAAGAATCATACAATAAACATCAGTATATTCTCCA
CTAAAAAAAAAAAAAAAAAAAA

1129/6881

FIGURE 1052

MSELKDCPLQFHDFKSVDHLKVCPRYTAVLARSEDDGIGIEELDTLQLELETLLSSASRRLRVLEAETQILTDWQ
DKKGDRRFLKLGRDHELGAPPKHGKPKKQKLEGKAGHGPGPGPRPKSKNLQPKIQEYEFTDDPIDVPRIPKND
PNRFWASVEPYCADITSEEVRTLEELLKPPEDAEHYKIPPLGKHYSQRWAQEDLLEEQKDGAARAAVADKKKGL
MGPLTELDTKDVDALLKKSEAQHEQPEDGCPFGALTQRLLOALVEENIISPMEDSPIPDMSGKESGADGASTSPR
NQNKPFVSPHTKSLESRIKEELIAQGLLESEDRPAEDSEDEVLAELRKRQAEKALSARNRTKKHDLR

1130/6881
FIGURE 1053

GTACCCCATCCTTTCTCTCGCCCTCCTACCCGCAGCTCCTGGCGCTCGGCGGGGCTAACTGCAGCGCGGAGAT
CTCGGCCGCCAAGCTCCGCCTCCCGCCCCGGGCTGTGCCCGGGGCTCGCCTGAGGCCGACCACCCGCACCCAC
CTCTAGCGGCTTTGCTCGAGGCCACCTTCTTCCACCCCGGCAAACTCCAGTAGGCTCGCCCTCGCTGACTCC
CCGCCCCCGCGTCAACTGCAAGGGGCCCCGCCATAGCCAGTTCCGGGGCGGTTGCTCACATCGACCGGAACTCCC
CGCCCCCTCCCGCGGCCCTGGGGCCGTAGGAGGCCGCAGCGAGGAGGTAGAGGGGGCGGGGGTTCGCACTAGGGT
GTCCCTAGAGAACGAGGACTCTGAAGGCGGGACATTTGGGCGACCCCGGGCGGGGCCAGCCATTAAACAGTCCC
ACTTCTGTGCCAGACACTGAACTGGGCTCTTGACGGGCATCATCTCTTAATCCTCAGAACATCCCAGGGAGCTCC
ACAGGATCCCCATATCCTGGGGCCATGAGTGAGTTGAAAGACTGCCCCCTTGCACTTCCACGACTTCAAGTCTGTGG
ATCACCTGAAGGTCTGTCCCGCTACACGGCAGTGCTGGCACGCTCTGAGGATGATGGCATCGGCATCGAGGAGC
TGGACACCCCTGCAGCTGGAGCTGGAGACCTGCTGTCTTCTGCCAGCCGGCGCCTGCGTGTGCTTGAGGCCGAAA
CCCAGATCCTCACCGACTGGCAGGATAAGAAAGGTGACAGACGATTCTGAAGCTGGGTGAGACCATGAACTTG
GAGTCCCCCAAACATGGGAAGCCCAAGAAGCAGAACTGGAAGGGAAGGCAGGACATGGGCCGGGCCCTGGCC
CAGGACGGCCCAAATCCAAAACCTTCAGCCCAAGATCCAGGAATATGAATTCAGTGATGACCTATCGACGTGC
CACGGATCCCCAAAATGATGCCCCCAACAGGTTCTGGGCTTCAGTGAGCCCTACTGTGCTGACATCACACGCG
AGGAGGTCCGCACACTTGAGGAGTTACTGAAGCCCCCAGAAGATGAGGCTGAGCATTACAAGATCCCACCCCTGG
GGAAGCACTACTCCAGCGCTGGGCCCAGGAGGACCTGCTGGAGGAGCAGAAGGATGGGGCCCGGGCAGCGGCTG
TGGCTGACAAGAAGAAAGGCCTCATGGGGCCACTGACCGAACTGGACACTAAAGATGTGGATGCCCTGCTGAAGA
AGTCTGAGGCCCAGCATGAACAGCCGGAAGATGGATGCCCTTTGGTGCCCTGACGCAGCGCCTCCTGCAGGCCC
TGGTGGAGGAAAATATTATTTCCCTATGGAGGATTCTCCTATTCCTGACATGCTGGGAAAGAATCAGGGGCTG
ACGGGGCAAGCACCTCCCTCGCAATCAGAACAAGCCCTTCAGTGTGCCGCATACTAAGTCCCTGGAGAGCCGCA
TCAAGGAGGAGCTAATTGCCCAGGGCCTTTTGGAGTCTGAGGACCGCCCCGCAGAGGACTCCGAGGATGAGGTCC
TTGCTGAGCTTCGCAACGGCAGGCTGAGCTGAAGGCACTTAGTGCCACAACCGCACCAAGAAGCACGACCTGC
TGAGGTGAGCGTTAGCAGGATGCACAGTCCCGGGGTGGCCTTGGAGGCTGTGGCCACGGCTAGTCACCTTTTACG
GGTTTTTACAACAGGCTTTCCAATCCTGGCTGGCCTCTAAATCACCTGGAGAGCCTCGAAAAAACAGCAGTGCC
CAGTCCACCGGTATGTCCCAACAAATTCTGATTCCACAGAGTGGGGCTCAGGCATCTGTGACTGACCGATTGA
TTTGATTGTTTTTTGTTTTGTTTTTTTTTGAGAGGGAGTCTCGCCTGGGCAACAAGAGTGAACTGCATCTCAA
AAAAAAGAAAAAAATTTACGCTTCTTAACCATTTTTAAGTGTACAGTTTAGTAGTGTACCCATATTACAT
TGTTGTGTGATTTATTTTTGTCTTTTCATGCTTCTTTCTTTTATCCCCAAAGTTTTGTTATAAAAATTTGA
TACACACAGAAAATCTGAAAGAATCATACAATAAACATCAGTATATTCTCCACCTAAAAA

1131/6881
FIGURE 1054

MSELKDCPLQFHDFKSVDHLKVCPRYTAVLARSEDDGIGIEELDTLQLELETLLSSASRRRLRVLEAETQILTDWQ
DKKGDRRFLKLGRDHELGAAPPKHGKPKKQKLEGKAGHGPGPGGRPKSKNLQPKIQEYEFTDDPIDVPRIPKNDA
PNRFWASVEPYCADITSEEVRTLEELLKPPEDAEHYKIPPLGKHYSQRWAQEDLLEEQKDGAARAAVADKKKGL
MGPLTELDTKDVDALLKKSEAQHEQPEDGCPFGALTQRLLOALVEENTISPMEDSPIPDMSGKESGADGASTSPR
NQNKPFVSPHTKSLESRIKEELIAQGLESSEDRPAEDSEDEVLAELRKRQAEKALSAHNRTKKHDLR

1132/6881
FIGURE 1055

CAGCCAGCGCCCGCGATGACTGCCACTCTCCGCCCCCTACCTGAGTGCCGTGCGGGCCACATTGCAGGCTGCCCTC
TGCCTGGAGAACTTCTCCTCCCAGGTTGTGGAACGACACAACAAGCCGGAAGTGGAAGTCAGGAGTAGCAAAGAG
CTCCTGTTACAACCTGTGACCATCAGCAGGAATGAGAAGGAAAAGGTTCTGATTGAGGGCTCCATCAACTCTGTC
CGGGTCAGCATTGCTGTGAAACAGGCTGATGAGATCGAGAAGATTTTGTGCCACAAGTTCATGCGCTTCATGATG
ATGCGAGCAGAGAACTTCTTTATCCTTCGAAGGAAGCCTGTGGAGGGGTATGATATCAGCTTTCTGATCACCAAC
TTCCACACAGAGCAGATGTACAAACACAAGTTGGTGGACTTTGTGATCCACTTCATGGAGGAGATTGACAAGGAG
ATCAGTGAGATGAAGCTGTCAGTCAATGCCCCGTGCCCGCATTGTGGCTGAAGAGTTCCTTAAGAATTTTTAAACC
ATCTGGCTGGATCTCGTGGCCCTCCCCCTCAGACTACCCATGTCTCCACGAAGGCGTCCTGGAGTCACTCCCCGA
GCAGCGCGGCGGCGGCAGGGAGTTGGGTTGGGGTGGGCATTGATGCGGGAGGTGGGTGGTGTGCTTGCTAGCTG
GGCAAGAAAGCAGCAGTGGACCTGCCCCAAGGCCACACGTGCCTGGTCAGGCTGGCTTCTGATGTTAGTCCCCT
GGCCCGGGACAGATTTTTTTTAACTCTTGAACTTAACTCTGTGCTTGTA

1133/6881
FIGURE 1056

MTATLRPYLSAVRATLQAALCLENFSSQVVERHNKPEVEVRSSKELLQPVTISRNEKEKVLIEGSINSVRVSIA
VKQADEIEKILCHKFMREFMMRAENFFILRRKPVEGYDISFLITNFHTEQMYKHKLVDFVIHFMEEIDKEISEMK
LSVNARARIVAEFLKNE

1134/6881
FIGURE 1057

GCCTGCCTCTTCCAGAGAGACTCCCCATTGCTGTCTCTTGTGTGTGTCATGCACAAGGAAGGCTTGGTTGTGTG
CCAGGATAAGGGGCACAAGGGCCTCGGGTGTGGCCAGAGACCCCATGCTTAAGCTTTTATGGTATAGGTCAGGCT
GCAGGGGTTTGTAGGGCCTCAGTTGTATATCAGAATCTTCAGAGCACTGCGATGTTTCAGGGGTGAGTCAGGCTCTGT
AGATGTGCACGGGTCTTCTGAAGGGTCAGTTTCTGTAACTACTTTCAGGTGTGTCAGGGCCTTGTGCAGTAACA
GTGCACACAGAAGTTAGTGTCTTGTGGGCTAAGGGTTGTAGCTCTGTATCAGGATTCTGGGAGTGGGTCTGGAT
TTCTGGTGTGTGGACTTAAGAAGCTGTGTGCACTTGGGGGAGGGGCGTTCATGTATAACTGGGTTCACATAGGC
CAAGACTCCCAGGTGCATTTTAGGCAGAGCCTCAGGTGTGTTAGAGGTCCCAGGGGCAGAGAGGCTATAGGTGCT
GTCAGAGGCCTTGGGGACATTTAGGGCAGAGCCTCGAGTGACAGGTCTGGGACAGTGGGAGCCAAGGGCAAGTG
CTAGAGTTGCAGTGAATTTAGAGCAAAGCCTCAGCTAAGTGACACATCCAGGGCAGTAGGGGATCTATCTAGGT
TCGTGCTGGGCCTCAGGTAAGTGACAGGCCTTAGGACAATGGGGGCTGTGGCATGCGTCAGGTTACCTGCCTTGA
TATGGGATCGTGACAGGCCCTCCCTATGTGCAGGAGACAAGCAGCCCAAGAAACAGGAGAAAAACCCAGTGTGTG
GTGTCCCCAGAGTTTGTGGATGAAGCTCTGTGTGCGTGCGAGGAGTACCTTAGCAACTTGGCCACATGGACATC
GACAAGGACCTGGAGGCCCCGCTGTACCTCACCCCGAGGGCTGGTCCCTCTTCCTCCAGCGCTACTACCAAGTG
GTCCACGAAGGGGCAGAACTCAGGCACCTCGACACTCAGGTCCAGCGCTGTGAGGACATCTGCAGCAGCTGCAG
GCCGTGGTACCCAGATAGACATGGAAGGGGATCGCAACATCTGGATCGTGAAGCCAGGAGCCAAGTCCCGCGGA
CGAGGCATCATGTGCATGGACCACCTGGAGGAGATGCTGAAGCTGGTGAACGGCAACCCCGTGGTGATGAAGGAC
GGCAAGTGGGTGGTGCAGAAGTATATTGAGCGGCCCTCCTCATCTTTGGCACCAGTTTGACCTCAGACAGTGG
TTCTTGGAACCTGACTGGAACCCACTTACCGTGTGGTTCTACCGCGACAGCTATATCCGCTTTTCCACGCAAGCCC
TTCTCCCTGAAGAACCTGGACAACCTCAGTGACCTGTGCAACAACCTCCATCCAGAAGCACCTGGAGAACCTCATGC
CATCGGCATCCACTGCTTCCGCCAGACAACATGTGGTCTAGCCAGAGGTTCCAGGCCACCTGCAGGAGATGGGT
GCCCCAAATGCTTGGTCCACCATCATCGTGCTGGCATGAAGGATGCTGTGATCCACGCACCTCAGACCTCCCAG
GACACCGTGCAGTGTGGAAGGCCAGCTTTGAGCTCTATGGCGCTGACTTCGTGTTGCGGGAGGACTTCCAGCCC
TGGCTGATTGAGATCAACGCCAGCCCCACGATGGCACCTCCACAGCAGTCACTGCCCCGGCTCTGTGCTGGCGTG
CAAGCTGACACCTGCGCGTGGTCAATTGACCGGATGCTGGACCGCAACTGTGACACAGGAGCCTTTGAGCTCATC
TATAAGCAGCCCGTCACCACTTCCCCAGCCTCCACACCAAGGCCAGCTGCCTTCTCCCCATGTACTCCGACACC
AGGGCCAGGTCTCTAGACGACAGCACAGCAAGCTGGTGGGCACTAAGGCCCTGTGACCACAGGCAAGGCCTTGA

GGACTCTACCCACGGCTAAGGTCTTCAATTTCCCTCCACCGAACCTTGATTTCAGGTGGCACCCAGCATCCTGA
AGCCAAGAAAGGTGGGCCTCGACCTGTGACTCACACCCAGTGGACAGTGCTGAGCACGGGGTCAGGGCTGGAGGG
CACAGGCAGAGGGCAGTCCCAGGCTGGCTGGCACCCCAAGGGAAGAGCTGGTCTCCCTCAGAAGCCCCCTTCTC
CACAGACTTCTGATCATCTCCCTCTTCTCCCTCCTTTACACCGAGGCTCCTGCTCTCCTGTGCTCCGAGGCC
CCCAGCTGGAAGTGCTTGTGCTCTGCCCTTTGAAGTCGGAACAATTCCTAGCACCTGTGGAAGGTCAAGGC
CAAAGGCAAATTCAGGCCAGACTGTGACAAACCCAGGGCTGAGGCCTGCCCCATGAAGAGGCTGAGCCCCCTGA
AACCCCTGCCCTTGTGTGTACATTCCAGAGGCGCAGGGGCTGGGGGATATGAAGCTAGGGAAGCCCCCTGCTTC
GATTCCTCCACTGCCCTTGTCTGGATCCAACACCAATAAAAAGAAACAAGTGAAGTAAAAAAAAAAAAAAAAAAAA
AAA

1135/6881
FIGURE 1058

MDIDKDLEAPLYLTPEGWSLFLQRYYQVVHEGAELRHLDTQVQRCEDILQQLQAVVPQIDMEGDRNIWIVKPGAK
SRGRGIMCMDHLEEMLKLVNGNPVVMKDGKWVVKYIERPLLIIFGTFDLRQWFLVTDWNPLTVWIFYRDSYIRFS
TQPFSLKNLDNSVHLCNNSIQKHLENSCHRHPLLPDNDMWSSQRFQAHLEMGAPNAWSTIIVPGMKDAVIHALQ
TSQDTVQCRKASFELYGADFVFGEDFQPWLEINASPTMAPSTAVTARLCAGVQADTLRVVIDRMLDRNCDTGAF
ELIYKQPVTTSFASPTRPSCLLPMYSDTRARSSDDSTASWWALRPCRPQARP

1136/6881

FIGURE 1059

GTCTGGCTCGGGAGATGGACGGCCGCCGTGTTTTGGGCCGGTTCTGGAGTGGCTGGCGGCGGGGCCTGGGTGTC
CGCCCAGTGCCCGAGGACGCAGGCTTTGGCACC GAAGCCCGGCATCAGAGGCAACCCCGGGCTCCTGCCAACGG
TCGGGGCCCCCTCGGGGACCAGCCCTTCGCGGGGGCTGCTGCCAAAAACCTCAGTCGGGAGGAGCTGGTTGATGCG
CTGCGGGCAGCCGTGGTGGACCGGAAAGGAAAACCAGGAGAGCTGACGTTGTTCTCAGTGCTGCCAGAGCTGAGC
CAGTCCCTAGGGCTCAGGGAGCAGGAGCTTCAGGTTGTCCGAGCATCTGGGAAAGAAAGCTCTGGGCTTGTTACTC
CTCTCCAGCTGTCCCCAGACAGCTAGTCGCCTCCAGAAGTACTTCACCCATGCACGGAGAGCCCAAAGGCCACA
GCCACCTACTGTGCTGTCACTGATGGGATCCCAGCTGCTTCTGAGGGGAAGATCCAGGCTGCCCTGAAACTGGAA
CACATTGATGGGGTCAATCTCACAGTTCCAGTGAAGGCCCATCCCGAAAGGACATCCTGGAAGGTGTCAAGAAG
ACTCTCAGTCACTTTCGTGTGGTAGCCACAGGCTCTGGCTGTGCCCTGGTCCAGCTGCAGCCACTGACAGTGTTT
TCCAGTCAACTACAGGTGCACATGGTACTACAGCTCTGCCCTGTGCTTGGGGACCACATGTACTCTGCCCGTGTG
GGCACTGTCTCGGGCCAGCGATTTCTGCTGCCAGCTGAGAACAAAGCCCCAAAGACAGGTCCTGGATGAAGCC
CTCCTCAGACGCCTCCACCTGACCCCTCCCAGGCTGCCAGCTGCCCTTGACCTCCACCTACATCGGCTCCTT
CTCCCAGGCACCAGGGCCAGGGACACCCCTGTTGAGCTCCTGGCACCCTGCCCCCTTATTTCTCCAGGACCCTA
CAGTGCTTGGGGCTCCGCTTACAATAGTCCCTCCTGTTTCTGACCCCTCACACACACTGGAAAGTGAGGGTG
GGGGCTCTGCAGTCAGACAAACCTAAGATCACATCCTGGACAGGCCACTTGCTTGCTGTGTGGCATTGGGCAAGT
AACTTTACCTCTCTGGACTTGTGATAATAAAAGTTCCTACCTC

1137/6881

FIGURE 1060

ATAGGGTCAGTGGGCCGCTTGGCGGTGTCGTTGCGGTACCAGGTCCGCGTGAGGGGTTTCGGGGGTTCTGGGCAGG
CACAAATGGCGTCTCGAGCAGGCCCGCGAGCGGCCGGCACCGACGGCAGCGACTTTCAGCACCGGGAGCGCGTCGC
CATGCACTACCAGATGAGTGTGACTCTCAAGTATGAAATCAAGAAGCTGATCTACGTACATCTGGTCATATGGCT
GCTGCTGGTTGCTAAGATGAGCGTGGGACACCTGAGGCTCTGTGCACATGATCAGGTGGCCATGCCCTATCAGTG
GGAATACCCGTATTTGCTGAGCATTTTGCCCTCTCTCTTGGGCCTTCTCTCCTTTCCCCGCAACAACATTAGCTA
CCTGGTGCTCTCCATGATCAGCATGGGACTCTTTTCCATCGCTCCACTCATTTATGGCAGCATGGAGATGTTCCC
TGCTGCACAGCAGCTCTACCGCCATGGCAAGGCCTACCGTTTCCTCTTTGGTTTTTCTGCCGTTTCCATCATGTA
CCTGGTGTTGGTGTGGCAGTGCAAGTGCATGCCTGGCAGTTGTACTACAGCAAGAAGCTCCTAGACTCTTGGTT
CACCAGCACACAGGAGAAGAAGCATAAATGAAGCCTCTTTGGGGTGAAGCCTGGACATCCCATCGAATGAAAGGA
CACTAGTACAGCGGTTCCAAAATCCCTTCTGGTGATTTTAGCAGCTGTGATGTTGGTACCTGGTGCAGACCAGGC
CAAAGTTCTGGAAAGCTCCTTTTGCCATCTGCTGAGGTGGCAAACTATAATTTATTCCTGGTTGGCTAGAACTG
GGTGACCAACAGCTATGAAACAAATTTAGCTGTTTGAAGTTGAACTTTGAGGTTTTCTTTAAGAATGAGCTTC
GTCCTTGCTCTACTCGGTCATTCTCCCCATTTCCATCCATTACCCCTTAGCCATTGAGACTAAAGGAAATAGGG
AATAAATCAAATTACTTTCATCTCTAGGTCACGGGTCAGGAAACATTTGGGCAGCTGCTCCCTTGGCAGGCTGTGG
TCTCCTCTGCAAAGCATTTTAATTAAAAACCTCAATAAAGA

1138/6881
FIGURE 1061

MASRAGPRAAGTDGSDFOHREERVAMHYQMSVTLKYEIKKLIYVHLVIWLLLVAKMSVGHLRLLSHDQVAMPYQWE
YPYLLSILPSSLGLLSFPRNNISYLVLSMISMGLFSIAPLIYGSMEMFPAAQQLYRHGKAYRFLFGFSAVSIMYL
VLVLAVQVHAWQLYYSKKLLDSWFTSTQEKKKH

1139/6881
FIGURE 1062

GGAAGTTGAGCGGCGGCAAGAAATAATGGCGGCAGCTACGGGGGATCCTGGACTCTCTAAACTGCAGTTTGCCCC
TTTTAGTAGTGCTTGGATGTTGGGTTTTGGCATGAGTTGACCCAGAAGAAGCTGAACGAGTATCGGCTGGATGA
AGCTCCCAAGGACATTAAGGGTTATTACTACAATGGTGACTCTGCTGGGCTGCCAGCTCGCTTAACATTGGAGTT
CAGTGCTTTTGACATGAGTGCTCCCAACCCAGCCCGTTGCTGCCAGCTATTGGAACACTGTATAACACCAACAC
ACTCGAGTCTTTCAAGACTGCAGATAAGAAGCTCCTTTTGAACAAGCAGCAAATGAGATATGGGAATCCATAAA
ATCAGGCACTGCTCTTGAAAACCTGTACTCCTCAACAAGTTCCTCCTCTTGACATTGTCAGATCTAAAGAAGTA
CCACTTCTACTATTGGTTTTGCTATCCTGCCCTCTGTCTTCAGAGAGTTTACCTCTCATTGAGGGGCCAGTGGG
TTTGATCAAAGGTTTTCACTAAACAGATTGAAGCACTAGAGTGTGCATATGATAATCTTTGTCAAACAGAAGG
AGTCACAGCTCTTCCTTACTTCTTAATCAAGTATGATGAGAACATGGTGCTGGTTTTCTTGCTTAAACACTACAG
TGATTTCTTCCAAGGTCAAAGGACGAAGATAACAATTGGTGTATATGATCCCTGTAACCTAGCCCAGTACCCTGG
ATGGCCTTTGAGGAATTTTTTGGTCCTAGCAGCCACAGATGGAGTAGCAGTTTCCAGTCTGTTGAAGTTGTTG
CTTCCGTGACCGTACCATGCAGGGGGCGAGAGACGTTGCCACAGCATCATCTTCGAAGTGAAGCTTCCAGAAAT
GGCATTTAGCCCAGATTGTCCTAAAGCAGTTGGATGGGAAAAGAACCAGAAAGGAGGCATGGGACCAAGGATGGT
GAACCTCAGTGAATGTATGGACCTAAAAGGTTAGCTGAGTCATCAGTGGATCTAAATCTCAAACCTGATGTGTTG
GAGATTGGTTCCTACTTTAGACTTGACAAAGGTTGTGTCTGTCAAATGTCTGCTGCTTGAGCCGGCACCTTGGG
TTGGAATGTAGCTAGGACGTTGATGGGTTGGGGCGTGAGACACATCACATTTGTGGACAATGCCAAGATCTCCTA
CTCCAATCCTGTGAGGCAGCCTCTCTATGAGTTTGAAGATTGCCTAGGGGGTGGTAAGCCCAAGGCTCTGGCAGC
AGCGGACCGGCTCCAGAAAATATTCCCCGGTGTGAATGCCAGAGGATTCAACATGAGCATACCTATGCCTGGGCA
TCCAGTGAACCTCTCCAGTGTCACTCTGGAGCAAGCCCGCAGAGATGTGGAGCAACTGGAGCAGCTCATCGAAAG
CCATGATGTCGCTTCCTATTGATGGACACCAGGGAGAGCCGGTGGCTTCCTGCCGTCAATTGCTGCAAGCAAGAG
AAAGCTGGTCATCAATGCTGCTTTGGGATTTGACACATTTGTTGTCTATGAGACATGGTCTGAAGAAACCAAGCA
GCAAGGAGCTGGGGACTTGTGTCCAAACCACCTGTGGCATCTGCTGACCTCCTGGGCTCATCGCTTTTTTGCCAA
CATCCCTGGTTACAAGCTTGGCTGCTACTTCTGCAATGATGTGGTGGCCCCAGGAGATTCAACCAGAGACCGGAC
CTTGACCAGCAGTGCATGTGAGTCGTCCAGGACTGGCCGTGATTGCAGGAGCCCTGGCCGTGGAATTGATGGT
ATCTGTTTTGCAGCATCCAGAAGGGGGCTATGCCATTGCCAGCAGCAGTGACGATCGGATGAATGAGCCTCCAAC
CTCTCTTGGGCTTGTGCCTCACCAGATCCGGGGATTTCTTTCACGGTTTGATAATGTCCTTCCCGTCAGCCTGGC
ATTTGACAAATGTACAGCTTGTCTTCCAAAGTTCTTGATCAATATGAACGAGAAGGATTTAACTTCTTAGCCAA
GGTGTTTAATTCTTCACATTCCTTCTTAGAAGACTTGACTGGTCTTACATTGCTGCATCAAGAAACCAAGCTGC
TGAGATCTGGGACATGAGCGATGATGAGACCATCTGAGATGGCCCCGCTGTGGGGCTGACTTCTCCCTGGCCGCC
TGCTGAGGAGCTCTCCATCGCCAGAGCAGGACTGCTGACCCAGGCCCTGGTGATTCTGGGCCCCCTCCTCCATACC
CCGAGGTCTGGGATTCCCCCTCTGCTGCCCAGGAGTGCCAGTGTTCGGCGTTGCTCGGGATTCAAGATACCAC
CAGTTCAGAGCTAAATAATAACCTTGGCCTTGGCCTTGCTATTGACCTGGGAAAAAAAAAAAAAAAAAAAAA

1140/6881
FIGURE 1063

MAAATGDPGLSKLQFAPFSSALDVGFWHELTQKKLNEYRLDEAPKDIKGYYYNGDSAGLPARLTLEFSAFDMSAP
TPARCCPAIGTLYNTNTLESFKTADKKLLLEQAANEIWESIKSGTALENPVLLNKFLLLTADLKKYHFYYWFCY
PALCLPESLPLIQGPVGLDQRFSLKQIEALECAYDNLCQTEGV TALPYFLIKYDENMVLVSLLKHYSDFQGGQRT
KITIGVYDPCNLAQYPGWPLRNFLVLAHRWSSSFQSVEVVCFRDRTMQGARDVAHSIIFEVKLPMAFSPDCPK
AVGWEKNQKGGMGPRMVNLSECMDBPKRLAESSVDNLNKLKMCWRLVPTLDLDKVSVKCLLLGAGTLGCNVARTLM
GWGVRHITFVDNAKISYSNPVRQPLYEFEDCLGGGKPKALAAADRLQKIFPGVNARGFNMSIPMPGHPVNFSSVT
LEQARRDVEQLEQLIESHDVVFLMDTRESRWLPAVIAASKRKLVINAAALGFDTFVVMRHGLKKPKQQGAGDLCP
NHPVASADLLGSSLFANIPGYKLCYFCNDVVAPGDSTRDRTLDDQCTVSRPGLAVIAGALAVELMVSVLQHPEG
GYAIASSDDRMNEPPTSLGLVPHQIRGFLSRFDNVLPVSLAFDKCTACSSKVLDQYEREGFNFLAKVFNSSHSF
LEDLTGLTLLHQETQAAEIWDMSDDETI

1141/6881
FIGURE 1064

TCTTCCTCGGCGCTGCCTACGGAGGTGGCAGCCATCTCCTTCTCGGCATCATGGCGCCCTCAGACCCCTTG TGA
AGCCCAAGATCGTCAAAAAGAGAACCAAGAAGTTCATCCGGCACCAGTCAGACCGATATGTCAAAATTAAGCGTA
ACTGGCGGAAACCCAGAGGCATTGACAACAGGGTTTCGTAGAAGATTCAAGGGCCAGATCTTGATGCCCAACATTG
GTTATGGAAGCAACAAAAAACAAGCACATGCTGCCCAGTGGCTTCCGGAAGTTCCTGGTCCACAACGTCAAGG
AGCTGGAAGTGCTGCTGATGTGCAACAAATCTTACTGTGCCGAGATCGCTCACAATGTTTCCTCCAAGAACCGCA
AAGCCATCGTGGAAGAGCTGCCCAACTGGCCATCAGAGTCACCAACCCCAATGCCAGGCTGCGCAGTGAAGAAA
ATGAGTAGGCAGCTCATGTGCACGTTTTCTGTTTAAATAAATGTAAAACTGCCATCTGGCATCTTCCTTC

1142/6881
FIGURE 1065

MAALRPLVKPKIVKKRTKKFIRHQSDRYVKIKRNWRKPRGIDNRVRRRFKQILMPNIGYGSNKKTKHMLPSGFR
KFLVHNVKELEVLLMCNKS YCAEIAHNVSSKNRKAIVERAAQLAIRVTNP NARLRSEENE

1143/6881
FIGURE 1066

TCGGAGGAGCCAGCCGAAATCCTGCCGCCTGCCCGGGACGAGGAGGAGGAGGAGGAAGAGGGGATCGAGCAGGGG
CTGGAGGAGGAAGAAGAGGTGGATCCCCGGATCCAGGGAGAACTGGAGAAGTTAAATCAGTCCACGGATGATATC
AACAGACGGGAGACTGAACTTGAGGATGCTCGTCAGAAGTTCCGCTCTGTTCTGGTTGAAGCAACGGTGAAACTG
GATGAACTGGTGAAGAAAATTGGCAAAGCTGTGGAAGACTCCAAGCCCTACTGGGAGGCACGGAGGGTGGCGAGG
CAGGCTCAGCTGGAAGCTCAGAAAGCCACGCAGGACTTCCAGAGGGCCACAGAGGTGCTCCGTGCCGCCAAGGAG
ACCATCTCCCTGGCCGAGCAGCGGCTGCTGGAGGATGACAAGCGGCAGTTCGACTCCGCCTGGCAGGAGATGCTG
AATCAGCCCACTCAGAGGGTCATGGAGGCGGAGCAGACCAAGACCAGGAGCGAGCTGGTGCATAAGGAGACGGCA
GCCAGGTACAATGCCGCCATGGGCGCATGCGACAGCTGGAGAAGAACTCAAGAGAGCCATCAACAAGTCCAAG
CCTTATTTTGAAGCTCAAGGCAAAGTACTATGTGCAGCTCGAGCAACTGAAAAAGACTGTGGATGACCTGCAGGCC
AAACTGACCCTGGCAAAAGGCGAGTACAAGATGGCCCTGAAGAACCTGGAGATGATCTCAGATGAGATCCACGAG
CGGCGCGCTCCAGTGCCATGGGGCCTCGGGGATGCGGTGTTGGTGTGAGGGCAGCAGCACATCTGTGGAGGAT
CTGCCAGGGAGCAAACCTGAGCCTGATGCCATTTCTGTGGCCTCGGAGGCCCTTGAAGATGACAGCTGTAGCAAC
TTTGTGTCTGAAGATGACTCGGAAACCCAGTCCGTGTCCAGCTTTAGTTCAGGACCAACAAGCCCGTCTGAGATG
CCTGACCAGTTCCCTGCCGTTGTGAGGCCTGGCAGCCTGGATCTGCCAGCCCTGTGTCCCTGTCAGAGTTTGGG
ATGATGTTCCAGTGTTGGGCCCTCGAAGTGAATGCAGCGGGGCTCCTCCCTGAATGTGAAGTAGAACGAGGA
GACAGGGCAGAAGGGGCAGAGAATAAAACAAGTGACAAAGCCAACAACAACCGGGGCTCAGCAGTAGCAGTGCC
AGTGGTGGCAGCAGTAAGAGCCAAAGCAGCACCTCCCTGAGGGCCAGGCCTTGAGAACCAGGATGAAGCAGCTC
TCCCTACAGTGCTCAAAGGGAAGAGATGGAATTATTGCTGACATAAAAAATGGTGCAGATTGGCTGATTCATCCTG
GGCCCTGGCCGATGTGCATATCAACATTTATACATGGAAGTGGAGAACATTGTGCCAATAATCATTAAATATATG
CCAAATCTTACAGCTCTACTCTAAACTGCTCTAATGAAGTTTCAGTGACCTTGAGGGCTAAAGATTGTTCTTCTG
GGTAAGAGCTCTTGGGCTGGTTTTTCAGAGCAGAGTTCTTGTGTGGGTAGACTGTGACTAGGTTACAGCCTTT
GTGGAACATTCCGTATAACGGCATTGTGGAAGCAATAACTAGTTCCTATGAAAGAACCAGAGCTGGGAAGATGGC
TGGGAAGCCAGGCCAAAGTGGGGGCAACAGCTTGCTTCTCTTCTCTCACCCTCAGTTTGTATGGGAAAATG
GAGATGTCTCTCCACTTTATCCCACGATATCTAAATGAAAAAGAAAGAAAACCCACACACAAAGCAAAAACTCA
AGTATTAAGAGCACATATTTTTGACCCAGTGGAGGCTTAAAAAAAAAAAAATCCAAGAACACAATTCATTTTAC
CACCTCTGGTGTTTCCAGAGGGGGCTTTTAAAAAAGCGTGTATGCTGGGATACCCATTAAACCATTTTCTAGAAGG
CTACCATGAGCTGCACTTTTTGGGGTGGGAAAGGTGAATGCCAGTGGGGATGCGGGGGGATGAGGGTAGGAGGGA
CTTATAGAAGGGGATTTGTGGCTGTGGGGGAGAAGGTTCTACAGCATAAGCCTTATCCTGCCAGCCAAGGGGATT
TATTCCTAAGAGAAGTGCATGTGAAGAATGGTTGCCACTGTTATTAGATTGACAAGATGTTAATTTCTCTGTAGGT
TGTAACTTTAAAAATAAATGAAATTATTTAAGGGTTATGCTGCACTAGTATTCCCTTAGAGGAAACAGTTCTTTAA
AGTTAGGAAAGGGAGTAGGCAGGCATGTGTTGGCAAAGGCTGTTAATAGTAGTTAAGTGTTAAGACTGCTTTTCT
TTAACGTTTTTCATGGTAATGCATATTTAGAGCACTGTATTTTTGTCTTGTAAAGAAAATTTAGCATTTCATAAAG
AAAAAGCAACCCCTCTTTCAAAGTGTAAATCTGTACAGCCTGTATATTTTAGTCATTTGTAAATCTCTTCATA
CAATAGTGACTTCTTTTTTACTGATACAGTATCTTAATTACAAGGTATTTTGTACTTGTCTTAATACACTAAG
TGTAATAAAAAACGGCTTGAG

1144/6881

FIGURE 1067

MEQGLEEEEEVDPRIQGELEKLNQSTDDINRRETELEDARQKFRSVLVEATVKLDELVKKIGKAVEDSKPYWEAR
RVARQAQLEAQKATQDFQRATEVLRAAKETISLAEQRILLEDDKRQFDSAWQEMLNHATQRVMEAEQTKTRSELVH
KETAARYNAAMGRMRQLEKKLKRAINKSKPYFELKAKYYVQLEQLKKTVDLQAKLTLAKGEYKMALKNLEMISD
EIHERRRSSAMGPRGCGVGAEGSSTSVEDLPGSKPEPDAISVASEAFEDDSCSNFVSEDDSETQSVSSFSSGPTS
PSEMPDQFPVVRPGSLDLPSPVSLSEFGMMFPVLGPRSECSGASSPECEVERGDRAEGAENKTSKANNNRGLS
SSSGSGGSSKSQSSTSPGQALENRMKQLSLQCSKGRDGIIADIKMVQIG

1145/6881
FIGURE 1068

CATGGCAAAAGAACTCCCGGATAATCCGAATTCGTGGTCTCAGAATTGGTTTAGGGTTGTTTCGCGGTTCTTCC
CGTATTCTGCCTCCGAGGCCAGTGGGGCTGGCTGTGGGGTGAGTGCGCCTGGCCCTAGCCCTGCAGCCCCCTGT
GCTGTTTGAGGCGTGAAACTCACCTCAGGAAATGTATCTGATCCATTAGCGTGGATTTCATATTATTTGGTGATGG
AGAATCTTCAGCTGTGTTAAGTGTTACCGTCAGTTTCAGAGATGGCTTCTTTGCAAAGGAAAGGGCTGCAGGCAA
GGATTCTCACCTCTGAAGAAGAGGAGAAACTGAAAAGAGACCAAACCTTTGGTGTCTGATTTTAAACAGCAGAAAT
TGGAACAAGAGGCTCAGAAAAATTGGGATCTTTTTTACAAAAGAAATAGCACTAATTTCTTCAAAGACAGACACT
GGACCACCAGAGAGTTTGAGGAGCTAAGATCATGTAGAGAGTTTGAAGATCAAAGTTAAACAATGCTTGAAGCTG
GCTGTGGGGTTGGAAACTGTTTATTCCCACTTTTGAAGAAGATCCGAATATCTTTGCCTATGCCTGTGATTTTT
CTCCAAGAGCCATTGAATATGTTAAGCAAAATCCTTTATATGATACAGAAAGATGCAAGGTATTCCAGTGTGATC
TGACTAAAGATGATCTTCTGGATCATGTACCGCCAGAGTCTGTGGATGTTGTTATGTTGATATTTGTGCTGTCAG
CTGTTTCATCCTGATAAGATGCACCTTGTCTTACAAAACATTTACAAGGTATTAAAACCAGGCAAAAGTGCTTGT
TTCGTGACTACGGACTGTATGATCATGCCATGCTTAGGTTTAAAGCCAGCAGCAAACCTTGGAGAAAACCTTTATG
TTAGACAAGATGGGACCAGATCATATTTTTTTACTGATGACTTCCTGGCTCAGCTCTTTATGGACACAGGTTATG
AAGAAGTGGTAAACGAGTATGTGTTTCGAGAGACGGTGAATAAAAAAGAAGGCCTGTGTGTGCCAAGAGTTTTCC
TTCAGAGCAAATTTCTAAAGCCTCCTAAGAACCCATCTCCTGTGGTCTGGGCCCTGGATCCTAAGTCTTGACCTT
TCATGAGGTTGGCATTATACCTTCCCTTGAAGAGGAAAAATTTAAATCACTCTTTTCGTCTGGGTGCGGTGGCTC
ATGCCTGTAATCCCAGCACTTCGGGAGGCCGAGGTTGGGGGATCATCTGAGGTCAGGAGTTTGAGACCAGCCTGG
CCAACATGGTGAGACCCCATCTCTACTAAAAATACAAAAAATTAGCTGGGCATAGTGGCGAGTGCCTGTAATCC
CAGCTACTCAGGAGGCTGAGGCAAGAGAATCGCTTGAACCCAAGAGGCGGAGACTGCAGTGAGCCAAGATCATGC
CATTGCACTCCAGCCTGGGCGACAGAGTGAGACCGTGTTTCATAAATAAATAAATCACTCTTTTTACTTTATAT
ATTTTTTGAGACAGGATCTTGTGGTACGCAGGCTGGAGTGCAGTGGTGTGTGATCACAGCTCATTGTAGCCTCGA
CCTCCCCTGGGCTCAAGCAGTCTTCCTGCCTCAGCCTCCTGAGTAGCTAGGACTACAGGTGTAAGCCACCATGCC
TGGCCCTTAATTTTTTTTAAATGAGCATGTACAGTAGTCCCCTTTATCCATGGTTTCACTTACCACAATTTCAAT
TACCTGTTTTCAACTGCAGTCAGTTACTTTTCTTAAAGATATTTTGAGGGTTATAGGCTCATGCCTATAACCCAG
CACTTTGAGAGGCCAAGGCCAGCAGATCCCTTGAGCCCAGGAGTTCAAGACCAGTGTGGGCAACATGGTGAAACT
CTGTCTCTACAGAAAATACAAAAATTAGCCAAATGTGGTGGCATGTGCCTGTAGTCCCAG

1146/6881
FIGURE 1069

MASLQRKGLQARILTSEEEKLKRDQTLVSDFKQOKLEQEAQKNWDLFYKRNSTNFFKDRHWTTREFEELRSCRE
FEDQKLTMLEAGCGVGNCLFPLLEEDPNIFAYACDFSPRAIEYVKQNPLYDTERCKVFQCDLT KD D LLDHVPPE
VDVVMLIFVLSAVHPDKMHLVLQNIYVKLPGKSVLFRDYGLYDHAMLRFKASSKLGENFYVRQDGTRSYFFTDD
FLAQLFMDTGYYEEVVNEYVFRET VNKKEGLCVPRVFLQSKFLKPPKNPSPVVLGLDPKS

1147/6881
FIGURE 1070A

GACAAATGAAAAGCGAACCCCATTCACAGCCGCAGCTTACCTTGGAGATGCAGAAATCATTGAACTTCTTATTTTA
TCTGGAGCTAGAGTTAATGCCAAAGACAGCAAATGGTTGACACCTTTACACAGAGCAGTTGCATCTTGTAGTGAG
GAAGCAGTTTACAGGTACTTTTGAAGCATTCTGCAGATGTTAATGCTCGAGACAAAAATTGGCAAACCCCTTTACAT
ATAGCTGCTGCTAATAAAGCTGTAAAGTGTGCTGAAGCTTTGGTACCTCTTCTGAGTAATGTAAACGTATCTGAT
CGAGCAGGGAGGACTGCATTACATCATGCAGCTTTTCACTGGACATGGTGAGATGGTCAAACCTACTCTTGTCTAGA
GGTGCCAAATATTAATGCTTTTGACAAGAAAGATAGGCGTGCTATCCATTGGGCAGCATATATGGGTACACATTGAA
GTAGTGAAATTGCTTGTGTCGCATGGAGCTGAAGTGACATGCAAGGATAAAAAGTCTTATACACCTCTTCATGCA
GCAGCCTCTAGTGGAATGATCAGCGTAGTCAAGTACCTTCTAGATCTTGGAGTTGATATGAATGAACCAAATGCC
TATGGAAATACACCTCTTCATGTAGCCTGCTATAATGGACAAGATGTTGTAGTGAATGAACCTTATAGACTGTGGT
GCTATTGTGAATCAAAAGAAATGAAAAAGGATTACTCCTTTGCACCTTTGCTGCTGCATCAACACATGGAGCATTG
TGTTTAGAGCTTCTAGTTGGCAATGGGGCCGATGTCAATATGAAGAGTAAAGATGGGAAAACCCCACTACACATG
ACTGCTCTCCACGGTAGATTCTCCCGATCACAAACCATTATCCAGAGTGGAGCTGTAATCGACTGTGAGGATAAG
AATGGAAATACCCCTTTGCACATAGCAGCACGGTATGGCCATGAGCTGCTGATCAACACTCTTATTACAAGTGGT
GCTGACACTGCAAAGCGTGGCATAACATGGAATGTTCCCCCTCCATTGGCAGCCTTAAGCGGCTTTTCAGATTGC
TGCAGAAAACCTTCTTTCTTCAGGATTGATATAGATAACCCAGATGATTTTGGCAGGACTTGTCTACATGCAGCT
GCAGCTGGAGGGAATTTGGAGTGCCTAAACCTTCTGCTGAATACTGGTGCAGACTTTAATAAAAAGGACAAATTT
GGGAGATCTCCACTGCACTACGCTGCTGCCAACTGCAATTACCACTGCCTGTTTGTCTTGTGGGATCAGGAGCA
AGTGTGAATGACCTTGATGAAAGAGGCTGCACACCCCTGCACTATGCAGCTACATCAGACACAGATGGCAAGTGC
CTGGAATACTTATTAAGAAACGATGCAATCCAGGGATCCGTGATAAGCAAGGATACAACGCAGTTTCAATTATCA
GCTGCTTATGGTCAACGCTCTATGTCTTCAGCTGATTGCAAGTGAAGTAACTCCTCTAGATGTTTTAATGGAAACCTCA
GGAACAGACATGCTGAGTGATTCAAGATAATAGAGCAACAATAAGCCCTTTACACTTGGCTGCCTATCATGGTCAC
CATCAAGCACTGGAAGTGTGGTACAGTCTTTGTTAGATCTTGATGTCAGAAATAGTAGTGGAAGAACACCCCTA
GATCTTGCAGCTTTTAAGGGCCATGTTGAATGTGTGGATGTACTCATTAAATCAGGGAGCCTCAATCTTAGTAAAA
GATTACATTTTGAAGAGGACACCTATTTCATGCAGCAGCAACAATGGTCAATCAGAATGCTTACGGCTATTAATA
GGAAATGCAGAACACAGAATGCAGTGGATATTCAAGATGGAAATGGACAGACGCCCTCTGATGCTATCTGTTCTC
AACGGGCACACAGACTGTGTTTACTCATTGCTGAACAAAGGAGCAAAATGTAGATGCCAAAGATAAGTGGGGAAGG
ACAGCGTTGCATAGAGGGGCGAGTTACAGGCCATGAAGAATGTGTAGATGCATTACTTCAACATGGTGTCTAAGTGC
TTACTTCGGGATAGCAGGGGCGGACGCCTATACACCTGTCTGCTGCCTGTGGACACATTGGTGTCTTGGAGCC
CTTTTGCAGTCAGCAGCATCTATGGATGCAATCCAGCCACAGCAGACAATCATGGATATACGGCAGCTTACAGTGG
GCTTGCTACAATGGTACAGAGACATGTGTAGAAGTCTTTTAGAACAGGAAGTTTTCCAGAAAACGGAAGAAAT
GCTTTTAGTCCATTGCATTGTGCCGTGATAAATGACAACGAAGGTGCTGCTGAGATGTTAATTGATACATTAGGT
GCCAGCATTGTGAACGCCACAGATTCAAAAGGAAGAACTCCTCTCCATGCAGCCGCCTTCACAGACCATGTAGAG
TGTTTACAGCTGCTGCTCAGCCATAATGCTCAAGTCAATTCTGTGGACTCTACAGGGAAAACACCTCTTATGATG
GCTGCAGAAAATGGACAAACAAATACAGTTGAGATGCTGGTTAGCAGTGTCTAGTGCAGAACTGACTTTTACAAGAT
AACAGTAAAAATACTGCCCTCCATTGGCTTGTAGCAAGGGTCAAGAACTAGTGCCTTGTAAATACTGGAAAAG
ATAACAGATAGAAACCTCATCAATGCAACCAACGCAGCCTTGCAACACCTCTGCATGTTGCTGCCGAAATGGG
CTAACAATGGTGGTTTCAAGAACTTTTGGGAAAAGGAGCAAGTGTGCTTGCAGTAGATGAAAATGGCTATACCCCA
GCTTTGGCCTGTGCTCCCAATAAGGATGTGGCTGATTGCCTGGCTCTCATTTTGGCCACCATGATGCCTGTCTCA
TCAAGTAGTCCTTTATCATCCTTAACATTCAATGCCATTAAACGTTTATACCAACACCTCAAAAACAGTCAGCTTT
GAAGCTTTGCCCATCATGAGGAATGAACCTAGCTCCTATTGACGTTTCAATAACATTGGAGGGGAACAGGAGTAC
TTATACACTGACGTGGATGAGCTCAACGACTCCGATTCTGAGACCTTACTGAGAGGCTGAGGAGGAGGGAGTTCTC
ACAGTAAAGCTTCAAACTGTGCTTTTTCAGGAAAAGGCACCTTTGATATTACGTTAGTAAATTCACCTAAGAGGA
AAGATCCACAGTGAGCCAATGTTAAGAGATCTGATGGCATTAGGAGGAAGAGTTTTAAAGGCAAGTTTTACAAA
AGGAACTTCTAGAATCTTGAAATAGACCTGACTGAGGAAAACACATTGATGTGAGAATCTTTGTGGAATGTTT
AATTTGGTTTTGCAGTGCCAGGAACAATTGGGGACACTGTGCACTCTAACCTGCTTACACAAGCAACACTATTGT
AACAGAAGAAATAAGACACTAGATTTAAATTTTATCAATAAAATTAACAATAAATTTAAAGGCAATAAAGTTT
GGTACAGTAGGCATTATGTGCACAGCAAATTGCAAAAGGACCAATAACTGAAAGGTTTTTTTAAATAAATGCCA
TTTTGTGGAACCTGGAGTAGATTAAATGAAACATTACCTAAACCAAACTGCAATATTTCTGGAAATGAAGCTGAG

1148/6881

FIGURE 1070B

ATTTGGTTTTAAATGTTGAGTTTTTTGGGTTTTGTTTTTTTTTAAGAAAACATCTGAAAGCCTTCCAATGCTG
TATTAAACCATGAGAGAAAGCAGATGTATTTTTACATTTTTTCTTTTACAGAACTATTCAAATTTCCAATTTT
TATACTATTAGAATTA AAAACAGCTGACTGGGTGCAATACGGGTGAAAATACTTGTGACATAGACATTGAGATG
GATTGGGGTCAGGCTGTTGCCCTGTTTTGAATGGTTGGGTTTTAAATAGTACTATTTTTGTTTGAAAATGTAAA
GAATTTCCTAGAAAAAATT CATGAAATCAAAAAGTAGACTATTTACCCCTATTGCAGCTAAGTGGTCCTGGGGC
ATGGAGTCTTCAACCTCTCTATGAATGGCACACCTTAGTCACTTATGTTACTTTTGTGTCCCCACCATGGGTGG
GGGATTTTTTTGTTTATTCTGATCTATGAGTTTTGAAAAGTGAATAATCAAAAGGAAAAATAATTCCTTGTGTTT
ATAAATTAAGCATCACTAAAGTCTCTTGAAAGGCATTTCTGTATTGGGCAAGATTTAAATACTAAAGCCTTAGG
TCCTATTTCATATTTAAAGTAGCATGTTTGTAACCTGTTACTATTGGAGAGAGAAGCAGTTGCCTGCCAAATTGA
AGACTACCTTTCAAATAGCAAAAGAGAGAGAGAAGGCTGATATTTCCGCTTTTAAATAAAGATTGTGTGGTTCT
GCTTTTACTGTAACTGTCACTTTCCCACTGAAAATGATTTTCATATACATTGAGGGTCTTACAGGTATGGGTAAAG
TTCTATAAATTGCAACAAAATGATACCCAATTTTCATTTTATCCTTTTTGTATTGTGAACTGGAACTTTATGAC
ATTGTAAATTATCAGCTGGTTTTTCTGAATATAAAGTGTGAAAACACAGAACAGTATTTTGATCTATTTGATAAT
TTTGTGGGTTTTTTGAAGAATTAATGAGCATGTACATAGAAATAGTGAAGTCTTGAATACTGTATTTACTTGCAC
TCTTTCAGTACATCAAGATTCCTGTATATTTTAGAGTATAATAAACACAGATGTGAGTTGTATTTAATGAATAA
TGATTTTGTATCTGTGCATATTATCTACAAATCTATAAAGTTTCTAGGGCATTGACTACTAGATTTTAAGCATT
TTTCTAAAATATTTACAGAAATTATAAATCTAATCCCCATCTTTTCTTTATAATATAAAGAAGTCATAATGAAC
CCTTCCTAATTATTAGTAGTAGGAAGGTGAATATGCATTTTAATGACAGTGGACTACATTTTCTATTGTACCTTT
TGAAAAAATAAATCAAGCAGATTCTAAAAGTATACATATGTGTGCTTTCTCTTTCCCTTTTAGGAATTCTCTT
CTGAATTCCTGAGGGAATTTCTAGAATCTCAGAATTGAAAGAGACCTGAGGTTTCATCCAGTCTCTAACCTCTT
AACAAATGCAGGAGTCCCTTCTACAAGGGTGATCTTTCCACCTTGAACACTTCCAAGTACTCTACCTCACCAAG
CAGTCCATTCAAGTTGTTGAGCAGCTCTAACTGTTAGAAAGGTCTTCCCTTAGATGGAGTTGAAGCCTCCCTCCCGG
TAACTTCTGTCTTTGGGCCTGGGTCTGTCTCCAAGAGAACCTGAGAATGTTGGAAGGATGAATCTCGCACATT
CTGCCATGTCTTCTCTTTTACAGGCTGTTTGACTTCTCTGCTGAAGTGATTCCAGAAGGACTCATTGACACAC
TATTAGATTTACCACATCTAATGAAATCCAAGGTGTAGCTATAAAGTGACAAGCTGTTTTTAATTTATCACATAC
ACCAGAATTTCTATCCTGCATCACTTATATGTAATGATGCTGTTACCAAAAACATTAAGGTAGTTCTTGCGAAT
GCCACCCCACTAAGAAAATATTTTACTTTTGTAAATCCATCTGTGAGAGTCTGCCCCCAGCTTAACCACTT
CCTTTGGTCTGCACCCAATGAAGGGAACCCCAAGTACTGTCTCAAATGGTATTTGAACTACG

1149/6881
FIGURE 1071

MVKLLLSRGANINAFDKKDRRAIHWAAYMGHIEVVKLLVSHGAEVTCKDKKSYTPLHAAASSGMISVVKYLLDLG
VDMNEPNAYGNTPLHVACYNGQDVVVNELIDCGAIVNQKNEKGFTPLHFAAASTHGALCLELLVGNGADVNMSK
DGKTPHMTALHGRFSRSQTIIQSGAVIDCEDKNGNTPLHIAARYGHELLINTLITSGADTAKRGIHGMFPLHLA
ALSGFSDCCRKLLSSGFDIDTPDDFGRTCLHAAAAGGNLECLNLLLNTGADFNKKDKFGRSPLHYAAANCNYQCL
FALVSGSGASVNDLDERGCTPLHYAATSDTDGKCLEYLLRNDANPGIRDKQGYNAVHYSAAYGHRCLQLIASETP
LDVLMETSGTDMLSDSNRATISPLHLAAYHGHQALEVIVQSLLDLVNRSSGRTPDLAAFKGHVECDVVLIN
QGASILVKDYILKRTPIHAAATNGHSECLRLIGNAEPQNAVDIQDNGGQTPMLSVLNGHTDCVYSLNKGANV
DAKDKWGRTALHRGAVTGHEECVDALLQHGAKECLLRDSRGRTPIHLSAACGHICVLGALLQSAASMDANPATADN
HGYTALHWACYNGHETCVELLLEQEVFQKTEGNAFSPHCAVINDNEGAEMLIDTLGASIVNATDSKGRTPHLA
AAFTDHVECLQLLLSHNAQVNSVDSTGKTPLMMAAENGQNTVEMLVSSASAELTLQDNSKNTALHLACSKGHET
SALLILEKITDRNLINATNAALQTPLVHVAARGLTMVVQELLGKGASVLAVDENGYPALACAPNKDVADCLALI
LATMMPVSSSSPLSSLTFNAINRYTNTSKTVSFEALPIMRNEPSSYCSFNNIGGEQEYLYTDVDELNDSDSETY

1150/6881
FIGURE 1072

CTTCCTGACAGCACACAACCTTGATTAGGAGGGGCTGGGAGGGAGGATCGATGAGCCCCTGACCCCTGGGTTCTG
AGGCTGCCAGGGTCGCTTGACGCTCGGCCGCTGGAGGTGACCGGGCGGAACCTCCGAGGGGGCGCGGGGAGAGCT
GGGCGGGGCCACCGCTCCAGCGCTGCTGTAGGGGCCGCGAGGCTTTCCTGAAGATGCAGCGTAGCATATTTT
GCACATGAGTTCAGAGGAAGAGGAAGTGTAGCCGGCGGACGCGCGGCGGGCGGGGGCGCGTTCGGGGCTGG
AGCCGGAGCGCGCGGGCGCTGGGCGCAGCGAGCGAGAGCGCGGCGGGCGGGCTCCGGCGAGGGACAGACGCA
CCGATCGCCGAGGGACAGACACAGACCACGCGGCGCCACCGCCACGCCTCCACCCACCGGCGCCCAAGTCCT
CCCCGCGCGCCTCCTCTGTATGGCACAACTTTCCTCCCGGACGGAACACGCTGCCTCAGGGAGCCCGCGACC
GCGCCTTCTCCTCCGCGGCTCCATACGCTGCTGAAATGGGTTCGGATTGAACAAGTTAGAGAAACGTGATGAA
AAACGGCCTGGGAATATTTATTCAACTTTGAAGAGGCCTCAGGTGGAAACCAAGATAGATGTGTCTATGAATAC
CGCTTCTGGAGTTACGACTCTGAGTGCTGCGGAGCTCCCTGGGTCTCAGCAGTGAGGCTGGCCTCCCTGCGT
GACCTGCCCCCGAGCTCCTGGAGCTGTACCAGCAGGGCTTCTCGCTGGCGGCCCTGCACCCCTTCGTGCAGCCC
ACCCATGAGCGGGAGAAGACGCCCCCTGGAGCACATCTTTAGAGCCATCCTGATCAAGAAAACCGACAGATCTCAG
AAAATGATCTTCACAATGAAGGTACATCTTGAATTAGATTGCTGTCTCCTTAGACCACCCGACAGACCAG
AAACTCATCCAGAGTTTATTGAAGATCCAGGAGGCTGCAAGCCAGGGCCTGAAATTCGTTGGTGTATACCT
CAGTACCATTCTCTGTGAACCTCGGCAGGCAGCAGTGCTCCGGTGTCTACTGCCAACAGCACCAGGATGCCAGA
GATGCAAAAAACGCACGTGGGGATCACGCGTCACTGGAGAATGAGAAACCGGGGACTGGGGATGTGTGCAGTGCT
CCGGCTGGGAGAAACCAAGCCCAGAGCCCAGCTCAGGCCCCAGAGGGGAGGTGCCCCCTCGCCAAGCAGCCAGC
TCACCCCTCCGGAGAGGGAGATGGTGGAGAACTTTCACCACAGGGGGTGAGCAAGACACTGGATGGACCGGAGAGC
AACCCCTTGGAGGTGCATGAAGAGCCACTCTCAGGAAAAATGGAGATCTTCACCCCTTTTCAACAAACCGAAGAGC
CATCAGAAGTGCCGGAATACTACCTGTACCATTCCTCTCCATGTCTCCAAGAATGGCCAGACAGTGAGCGGT
TTGGACGCCAACTGGTTAGAGCACATGAGCGACCACTTCCGGAAGGAGGCATGCTGGTGAACGCAGTCTTCTAC
CTTGAATAGTGAATGATTCTTACATGGCTTGACAGATGGAGTATTCTTTGAAGCTGTTTCCACAGAAGAT
AGCAAAACCATAACGGGCTATGATGCTATTGTGGTTGAACAATGGACAGTCTTGGAAGGTGTCGAAGTGACAGCA
GACTACGTGCCCCCTGCTGAACCTCGCTGGCGGCCTATGGCTGGCAGCTCACCTGTGTGTACCAACTCCCGTCTGTC
AAGACTACCAGCGAGGGGAGTGTATCCACCAAGCAGATTGTCTTTCTCAGAGACCTTGTCTACCTCAGAAAATC
AAGAAGAAGGAATCGAAGTTTTCAGTGCGGATTCTCCAGAGAAGAAATGCACAACAGGCAGATGAGGAAATCAAAA
GGTAAACTCAGTGCCAGAGACAAACAAGCAGAAGAAATGAGAAGAACTTAGAAGACCAGTCTTCCAAAGCT
GGAGACATGGGAACTGTGTTTCAGGACAGCAGCAGGAGGGTGGAGTCTCCGAGGAGATGAAGGGCCCTGTCCAA
GAGGACAAGGGAGAACAGCTGTCCCTGGTGGCCTGCTGTGTGGGGTGGGTGTGGAGGGTGAGGCTGTGCAGAAT
GGTCCTGCCAGCCACAGCAGGGCCCTGGTGGGGATTGCACTGGGCACTCCAATCCTGGAGAGGATGCCAGGGAC
GGGGATGCTGAGGAAGTCAGAGAGCTTGGTACGGTTGAAGAAAATGAGTCTTGGGCAATTTGTGCTAAACTAG
GTGAGTTGCCAAACCCCAAGGCATCTTACCAACAGCTGGTTTGGGGGCTGGTTTCCCTGGTGTGTGTGTACCTA
CCCTTTGGCTTGGCTTGACCTCTCCTTGTGAGCTCACCTGAGCCCTCCCAGGGCCAGGTTCTGACAGTGTTGGT
TTTTGCACATCCACTGGAAAGGTGTCTAATGACCCAGTGTTAGAATGCAAGAGGTGAGGTTATTCTAGCCCTC
ATGGCTGAAGGCCAGTCTGGCTCCACCACTCCTCCAGCCAGAGGGTCTGGACCATCCAGTGCCTGTCTCGCC
ACAGGGCCTCCAGGGAGCATTGCGGTCAAATCCATGGACACCCCTGGGCTACAAACCAAGGCTGCTGTTCATCCCA
CATCGTGTGGGGCAGTGTCCATCCCCTGCAGCTACTTGGTGACTTAACAACCTCCAGGAGCCCTGTGAGTGCCT
CCTCCACCTAAACCCCTTCGACTCTTCTGCTTTGACAAAGAAAATGACATTGGGAGGGGAGGTGCTCCGCCTCC
CAGCTTTTCTCAAATAGTCTATAGATACTGGTAATCTGGAAATGAAGAAGTAATTCTGTCTCTGCACCTACTT
TTGCAGAATGTTCAAGGAAGTATTCTGTGTAGTATTAATGCCAAAAGTTGTTTTAAAGGTTTTGTACTCAGC
ACATCATACAAACCACATTACTTCTGTCACTTCAGGGCATCGGGAAGTGGCTGGCGCCCTTGTATGTGCTATTTT
AATCAGTGTAACATTGGTCAAGTTGTTACCATGTATGCTGTGTTTATCATGTGTATATCGTCCAGAAAGTATTA
AGGCTTTAGGTAGATGCAACTGGCGAACCTTGAGAGGGAATGCTGATTGTCTTGACCAAACCCACAGCCTGTCT
CTTCTCTGTTTAGTTACTTACGGCAATAAATCATCTATGAGTT

1151/6881
FIGURE 1073

MGCGLNKLEKRDEKRPNGNIYSTIKRPQVETKIDVSYEYRFLEF TTLSAAELPGSSAVRLASLRDLPAQLLELYQQ
GFSLAALHPFVQPTHEREKTPLEHIFRAILIKKTD RSQKTDLHNEGYLELDCCSSLDHPTDQKLIPEFIKKIQE
AASQGLKFVGVIPQYHSSVNSAGSSAPVSTANSTEDARDAKNARGDHASLENEKPGTGDVCSAPAGRNQSPEPSS
GPRGEVPLAKQPSSPSGEGDGGELSPQGVSKTLDGPESNPLEVHEEPLSGKMEIFTLFNPKPKSHQKCRQYYPVTI
PLHVSKNQOTVSGLDANWLEHMSDHFRKGGMLVNAV FYLGIVNDSLHGLTDGVFIFEAVSTEDSKTIQGYDAIVV
EQWTVLEGVEVQTDYVPLLNSLAAYGWQLTCVLP TPVVKTTSEGSVSTKQIVFLQRPCLPQIKKKESKFQWRFS
REEMHNRQMRKSKGKLSARDKQQAENEKNLEDQSSKAGDMGNCVSGQQQEGGVSEEMKGPVQEDKGEQLSPGGL
LCGVGVEGEAVQNGPASHSRALVGICTGHSNPGEDARDGDAAEEVRELGTVEEN

1152/6881
FIGURE 1074

GCAATAGCACTAGAGTGCATCTATACCTGTGAACGAAATGATCAACTCTGTCTTTGCTATGACCTACTAGAATGT
CTGCCAGAAAGAGGATATGGTGATAAGACAGAGGCCAACCAAAAGCTTCATGACATGGTAGACCAACTGGAACAA
ATTCTCAGTGTGTGAGAGCTTTTGGAAAAACATGGACTCGAGAAACCAATTTCAATTTGTTAAAAACACTCAATCT
AGCTCAGAAGAGGCACGCAAGCTGATGGTTAGATTGACGAGGCACACTGGCCGGAAGCAGCCTCCTGTGAGTGA
TCTCATTGGAGAAGCTTGGCTGCAAGACATGTTAACTATGCAGCAGAATGTATACACATGTCTAGATTCTGATGCC
TGCTATGAGATATTTACAGAAAGCCTTCTGTGCTCTAGTCGCCTTGAAAACATCCACCTGGCTGGACAGATGATG
CACTGCAGTGTCTTGTTCAGAAAATCCTCCAGCTGGTATAGCCCATAAAGGGAAACCCCACTACAGGGTCAGCTAC
GAAAAGAGTATTGACTTGGTTTTTGGCTGCCAGCAGAGAGTACTTCAATTTCTTACCAACCTCACTGATAGCTGC
ATGGATCTAGCCAGGTGCTGCTTACAACTGATAACAGACAGACCCCTGCCATTCAAGAGGAGCTAGATCTTATC
CAAGCCGTTGGATGTCTTGAAGAATTTGGGGTAAAGATCCTGCCTTTGCAAGTGCGATTGTGCCCTGATCGGATC
AGTCTCATCAAGGAGTGTATTTCCAGTCCCCACATGCTATAAACAATCCACCAAGCTTCTGGGCCCTTGCTGAG
CTGCTGAGGGTTGCAGGTGAGAACCAGAAAGCGGGGACAGGTTCTAATCCTTTTAGTGAGCAGGCACTTC
GCTTCCATGACTACAAAGCAGCCAGTATGCATTGTGAGGAGCTGATGGCCACAGGTTATCCTAAAAGTTGGGATG
TTTGTAGCCAGTTAGGACAATCAGAAGGTTACCAGGACTTGGCCACTCGTCAAGAGCTCATGGCTTTTGTCTTGA
CACATTGCCCTCCTAGCAGCATTGAACCTCTTTTGGCAGCTAGCAGCTCTCTGCAGACAGAAATCTTTATCAAA
GAGTGAATTTCCAGATCCATCATGAAGGAGGGGAAAATATCAGTGCTTCACCATTAACTAGTAAAGCAGTACAAG
AGGATGAAGTAGGTGTTCAGGTAGCAATTCAGCTGACCTATTGCGCTGGACCACTGCTACCCATGAAAGTCC
TTTCCAACACCACAACCACCACCAAGCGGTGCTGCAGGCCGTGATGATGGGCAGTGGTGAAGAAGTCTTTAA
CTTACCTTCGACCCCTTCAGGGGCAAAATGTGGTGGTGCATATCAAATCGGAACCTACAGCCATGAAGATCTAG
AGAAACAAGGGTGTCTCCTTTTATGAATCTGTCTATCTCAAATCCTTTTGTGCTGAGTCTGAAGGGACCTATG
ACACCTATCAGCATGTTCCAGTGGAAGCTTTGCAGAAGTATTGCTGAGAACTGGAATAATGGCAGAGGCTAAAA
ATAAAGGAGAAGTATTTCCAACAACCTGAAGTCTCTTGGCACTAGCAAGTGAAGCCTTGCCAAATGACATGACCT
TGGCTCTTGCTTACCTTCTTGCCCTTACCACAAGTGTTAGATGCTAACCGGTGCTTTGAAAAGCAGTCCCCCTCTG
CAFTATCTCTCCAGCTGGCAGCGTATTACTATAGCCTCCAGATCTATGCCCCGATTGGCCCCATGTTTCAGGGACA
AGTGCCATCCTCTTTACAGGGCTGATCCCAAGAACTAATCAAGATGGTCACCAGGCATGTGACTCGACATGAGC
ACGAAGCCTGGCCTGAAGACCTTATTTCACTGACCAAGCAGTTACACTGCTACAATGAACGCTCTCTGGATTTC
CTCAGGCGCAGATCCTTCAGGGCCTTCGGAAGGGTGTGGACGTGCAGCGGTTTACTGCAGATGACCAGTATAAAA
GGGAAACTATCCTTGGTCTGGCAGAACTCTAGAGGAAAGCGTCTACAGCATTGCTATTTCTCTGGCACAACGTT
ACAGTGTCTCCCGCTGGGAAGTTTTTATGACCCATTTGGAGTTCTCTTTCACGGACAGTGGTTTGTCCACACTAG
AAATTGAAAATAGAGCCCAAGACCTTCATCTCTTTGAGACTTTGAAGACTGATCCAGAAGCCTTTTACCAGCACA
TGGTCAAGTATATTTACCTACTATTGGTGGCTTTGATCACGAAAGGCTGCAGTATTATTTCACTCTTCTGAAA
ACTGTGGCTGTGCAGATTTGGGGAACCTGTGCCATTAAACCAGAAACCCACATTGACTGCTGAAGAAGTTTAAAG
TTGTTGCATCAGGTCTTAATTACAAAAGCTGACAGATGAAAACATGAGTCCTCTTGAAGCATTGGAGCCAGTTC
TTTCAAGTCAAAATATCTTGTCTATTTCCAAACTTGTTCCTTCCAAAATCCCTGAAAAGGATGGACAGATGCTTTCCC
CAAGCTCTCTGTACACCATCTGGTTACAGAAGTTGTTCTGACTGGAGACCCTCATCTCATTAAACAAGTCCCAG
GCTCTTACCAGGAGTGGCTTCATGCCTATGATGTCTGCATGAAGTACTTTGATCGTCTCCACCCAGGTGACCTCA
TCACTGTGGTAGATGCAGTTACATTTTCTCCAAAAGCTGTGACCAAGCTGTCTGTGGAAGCCGTAAAGAGATGA
CTAGAAAGGCTATTAAGACAGTCAACATTTTATTGAGAAGCCAAGGAAAAGAACTCAGAAGACGAAGCTCAAG
AAGCTAAGGATTCTAAAGTTACCTATGCAGATACTTTGAATCATCTGGAGAAATCACTTGCCACCTGGAAACCC
TGAGCCACAGCTTCATCTTTCTCTGAAGAATAGTGAGCAGGAAACACTGCAAAAATACAGTCACCTCTATGATC
TGTCCCGATCAGAAAAAGAGAACTTCATGATGAAGCTGTGGCTATTTGTTTAGATGGTCAGCCTCTAGCAATGA
TTCAGCAGCTGCTAGAGGTGGCAGTTGGCCCTCTTGACATCTCACCAAGGATATAGTGCAGAGTGAATCATGA
AAATAATTTCTGCATTGAG

1153/6881

FIGURE 1075

GCAGTACATTGAGCTCCATAGAGACAGCGCCGGGGCAAGTGAGAGCCGGACGGGCACTGGGCGACTCTGTGCCTC
GCTGAGGAAAAATAACTAAACATGGGCAAAGGAGATCCTAAGAAGCCGAGAGGCAAAATGTCATCATATGCATTT
TTTGTGCAAACCTTGTCGGGAGGAGCATAAGAAGAAGCACCCAGATGCTTCAGTCAACTTCTCAGAGTTTTCTAAG
AAGCCCGTTATGAAAGAGAAATGAAAACCTATATCCCTCCCAAAGGGGAGACAAAAAGAAGTTCAAGGATCCCA
ATGCACCCAAGAGGCTTCCTTCGGCCTTCTTCCTCTTCTGCTCTGAGTATCGCCCCAAAATCAAAGGAGAACATC
CTGGCCTGTCCATTGGTGATGTTGCGAAGAAACTGGGAGAGATGTGGAATAACACTGCTGCAGATGACAAGCAGC
CTTATGAAAAGAAGGCTGCGAAGCTGAAGGAAAAATACGAAAAGGATATTGCTGCATATCGAGCTAAAGGAAAGC
CTGATGCAGCAAAAAAGGGAGTTGTCAAGGCTGAAAAAGCAAGAAAAAGAAGGAAGAGGAGGAAGATGAGGAAG
ATGAAGAGGATGAGGAGGAGGAGGAAGATGAAGAAGATGAAGAAGAAGATGATGATGATGAATAAGTTGGTTGTA
GCGCAGTTTTTTTTCTTGCTATAAAGCATTTAACCCCCCTGTACACAATTCACCTCTTTTTAAAGAAAAAAATTG
AAATGTAAGGCGGTGTAAGATTTGTTTTTAACTGTACAGTGTCTTTTTTTGTATAGTTAACACACTACCGAATG
TGTCTTTAGATAGCCCTGTCCTGGTGGTATTTTCAATAGCCACTAACTTTGCCTGGTACAGTATGGGGGTTGTAA
ATTGGCATGGAAATTTAAAGCAGGTTCTTGTGGTGCCAGCACAAATTAGTTATATATGGGGATGGTAGTTTTT
TCATCTTCAGTTGTCTCTGATGCAGCTTATACGAAATAATTGTTGTTCTGTTAACTGAATACCACTCTGTAATTG
CAAAAAAAAAAAGTTGCAGCTGTTTTGTTGACATTCTGAATGCTTCTAAGTAAATACAATTTTTTTATTA

1154/6881
FIGURE 1076

CCTTTCCGTCTGGCGGCAGCCATCAGGTAAGCCAAGATGGGTGCATACAAGTACATCCAGGAGCTATGGAGAAAG
AAGCAGTCTGATGTCATGCGCTTTCTTCTGAGGGTCCGCTGCTGGCAGTACCGCCAGCTCTCTGCTCTCCACAGG
GCTCCCCGCCCCACCCGGCCTGATAAAGCGCGCCGACTGGGCTACAAGGCCAAGCAAGGTTACGTTATATATAGG
ATTTCGTGTTCCCGTGGTGGCCGAAAACGCCCAGTTCTTAAGGGTGCAACTTACGGCAAGCCTGTCCATCATGGT
GTTAACCAGCTAAAGTTTGCTCGAAGCCTTCAGTCCGTTGCAGAGGAGCGAGCTGGACGCCACTGTGGGGCTCTG
AGAGTCCTGAATTCTTACTGGGTGGTGAAGATTCCACATACAAATTTTTTGAGGTTATCCTCATTGATCCATT
CATAAAGCTATCAGAAGAAATCCTGACACCCAGTGGATCACCAAACCAGTCCACAAGCACAGGGAGATGCGTGGG
CTGACATCTGCAGGCCGAAAGAGCCGTGGCCTTGGAAGGGCCACAAGTTCACCACACTATTGGTGGCTCTCGC
CGGGCAGCTTGAGAAGGCGCAATACTCTCCAGCTCCACCGTTACCGCTAAATATAAGTAAAGTTTGTAATAATTCA
TACTTAATAACAATTTAGGACAGTCATGCTGCTTACAGGTGTTATTTGTCTGTAAACTAGTCTGCAGATGT
TTCTTGAATGCTTTGTCAAATTAAGAAAGTTAAAGTGCAATAATGTTTGAAGACAATAAGTGGTGGTGTATCTTG
TTTCTAATAAGATAAACTTTTTGTCTTTGCTTTATCTTATTAGGGAGTTGTATGTCAGTGTATAAACATACTG
TGTGGTATAACAGGCTTAATAAATCTTTAAAGGAGAGAACTGAACTAGCCCTGTAGATTGTCTGGTGCATG
TGATGAAACCTGCAGCTTTATCGGAGTGATGGCAATGCTCTGCTGGTTATTTTCAAGTGGCTGCGTTTTTTTTA
GTTTGGCAGGTGTAGACTTTTTAAGTTGGGCTTTAGAAAATCTGGGTTAGCCTGAAGAAAATTGCCTCAGCCTCC
ACAGTACCATTTTAAATTCACATAAAAGGTGAAAGCTCCTGGTTCAGTGCCATGGCTTCATGGCATTCAAGTGAAT
AGTGGTAATGGTAAACACTGGTGTGTTTTGAAGTTGAATGTGCGATAAAATTATTAGCCTTAAGATTGGTAAGCT
AGCAATGAATGCTAGGGTGGGAAGCTGGTGAGCCAGTGGCCATTAGATAAATACCTTTCAAGTGTGAGCTTAGAC
GTCAACCTTAAATACTTAACCGTAATGCTAATTGTGATCATTATGAATCCCTTCAGTCACATTAGGGGGAAAGT
AGTTGGCTATAAGTACGTCAATCTTAGTCCAGTCAGTCTTAAAAACATCTTGGGTTACCCACTCTGTCCACTCCC
ATAGGCTACAGAAAAAGTCACAAGCGCATGGTTTTCCAACCATATGTGTTTTCTGCAGTTATTTCTTGTCTTG
CCAAACAACCCTAAAAATCCTTACCATTCCACAAAGTTGGACCATCACTTGTGCACCCACTTTGACTATGAGTAT
ACCACCACATTGCATTTCTGTTTGACCATGTCTTCCAGGAGACTAGACTACTGTTGTCCAGGGTCAATTTGAGT
GTAAAGAAAATGTAGACAAGGAATTGCCCAATTTAAATCTGACTTTGCTGACTTAATTTAAATGCTCGTTCTG
AACCAATTTTCTCCTATCTTCTTAGGGGTTTCAAAGACTCAGTTAATTGATTTCAGGAAGTACTCATAGCAA
GTTCATAAAAGTTCTTGAGACCTAAATTTCTTCACAAAAAAGAAAAGATCTTAAGTCATACATTTTAATTGTGT
AGAGGTTGTTCAACTGAAGGAATAAATGTCTATTAACTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

1155/6881
FIGURE 1077

MGAYKYIQELWRKKQSDVMRFLLRVRCWQYRQLSALHRAPRETRPDKARRLGYKAKQGYVIYRIRVRRGGGRKRPV
PKGATYGKPVHHGVNQLKFARSLQSVAEERAGRHCALRVLSYWVGEDSTYKFFEVLIDPFHKAIRRNPDQTQW
ITKPVHKKHREMRLTSAGRKSRGLGKGHKFHHTIGGSRAAWRRRNTLQLHRYR

1156/6881
FIGURE 1078

GTGACAGAAGTAGTAGGAAGTGAGCTGTTTCAGAGGCAGGAGGGTCTATTCTTTGCCAAAGGGGGGACCAGAATTC
CCCCATGCGAGCTGTTTGAGGACTGGGATGCCGAGAACGCGAGCGATCCGAGCAGGGTTTGTCTGGGCACCGTCTG
GGGTAGGATCCGGAACGCATTTCGGAAGGCTTTTTGCAAGCATTACTTGGAAGGAGAACTTGGGATCTTTCTGGG
AACCCCCGCCCCGGCTGGATTGGCCGAGCAAGCCTGGAAAATGGTAAATGATCATTGGATCAATTACAGGCTT
TTAGCTGGCTTGTCTGTCATAATTCATGATTTCGGGGCTGGGAAAAAGACCAACAGCCTACGTGCCAAAAAGGGG
CAGAGTTTGATGGAGTTGGGTGGACTTTTCTATGCCATTTCCTCCACACCTAGAGGATAAGCACTTTTGCAGAC
ATTCAGTGCAAGGGAGATCATGTTTGAAGTGTATGGATGTTCTGTCTAGTGAGTCTGGGCAATCCTGGATTCTA
CACTGCGAGTCCGTCTTCCTGCATGCTCCAGGAGAAAGCTCTCAAAGCATGCTTCAGTGGATTGACCCAAACCGA
ATGGCAGCATCGGCACACTGCTCAATCAATTGAAACACAGAGCACCAGCTCTGAGGAACTCGTCCCAAGCCCCC
ATCTCCACTTCTCTCCCCCTCGAGTGTACAAACCTGCTTCGCTGCCAGGACAAATCATCAGGGTACCACTATGG
GGTCAGCGCTGTGAGGGATGTAAGGGCTTTTTCCGCGAGAAGTATTCAGAAGAATATGATTTACACTTGTACCG
AGATAAGAACTGTGTTATTAATAAAGTCACCAGGAATCGATGCCAATACIGTCGACTCCAGAAGTGCTTTGAAGT
GGGAATGTCAAAGAATCTGTGAGGAATGACAGGAACAAGAAAAAGAGAGACTTCGAAGCAAGAATGCACAGA
GAGCTATGAAATGACAGCTGAGTTGGACGATCTCACAGAGAAGATCCGAAAAGCTCACCAGGAACTTTCCCTTC
ACTCTGCCAGCTGGGTAAATACACCACGAATTCAGTGCTGACCATCGAGTCCGACTGGACCTGGGCTCTGGGA
CAAATTCAGTGAAGTGGCCACCAAGTGCATTATTAAGATCGTGGAGTTTGCTAAACGCTCTGCCTGGTTTCACTGG
CTTGACCATCGCAGACCAAATTACCCTGCTGAAGGCCGCTGCTGGACATCCTGATTCTTAGAATTTGCACCAG
GTATACCCGAGAACAAGACACCATGACTTTCTCAGACGGCCTTACCCTAAATCGAACTCAGATGCACATGCTGG
ATTGGTCTCTGACTGACCTTGTGTTACCTTTGCCAACCAGCTCTGCCTTTGGAAATGGATGACACAGAAAC
AGGCCTTCTCAGTGCCATCTGCTTAATCTGTGGAGACCGCCAGGACCTTGAGGAACCGACAAAAGTAGATAAGCT
ACAAGAACCATTGTGGAAGCACTAAAAATTTATATCAGAAAAAGACGCCAGCAAGCCTCACATGTTTCCAAA
GATCTTAATGAAAATCACAGATCTCCGTAGCATCAGTGCTAAAGGTGCAGAGCGTGTAAATACCTTGAAAATGGA
AATTCCTGGATCAATGCCACCTCTCATTCAAGAAATGCTGGAGAAATCTGAAGGACATGAACCCTTGACCCCAAG
TTCAAGTGGGAACACAGCAGAGCACAGTCTAGCATCTCACCAGCTCAGTGGAACAGTGGGGTCAGTCAGTC
ACCACTCGTGCAATAAGACATTTTCTAGCTACTTCAAACATTCCTCAGTACCTTCAGTTCCAGGATTTAAAAATGC
AAGAAAAACATTTTACTGCTGCTTAGTTTTTGGACTGAAAAGATATTAAGTCAAGAGGACCAAGAAGTTT
TCATATGTATCAATATATATACTCCTCACTGTGTAACCTACCTAGAAATACAACTTTTCCAATTTTAAAAATC
AGCCATTTTCATGCAACCAGAACTAGTTAAAAGCTTCTATTTTCTCTTTGAACACTCAAGATTGCATGGCAAAG
ACCCAGTCAAAATGATTTACCCCTGGTTAAGTTTCTGAAGACTTTGTACATACAGAAGTATGGCTCTGTTCTTTC
TATACTGTATGTTTGGTGCTTTTCTTTTGTCTTGCACTCAAAATAACCATGACACCAAGGTTATGAAATAGAC
TACTGTACACGTCTACCTAGGTTCAAAAAGATAACTGTCTTGCTTTCATGGAATAGTCAAGACATCAAGGTAAGG
AAACAGGACTATTGACAGGACTATTGTACAGTATGACAAGATAAGGCTGAAGATATCTACTTTAGTTAGTATGG
AAGCTTGTCTTTGCTCTTTCTGATGCTCTCAAAGTGCATCTTTTATTTTCATGTTGCCAGTAAAAGTATACAAAT
TCCCTGCACTAGCAGAAGAGAATCTGTATCAGTGTAAGTCCAGTTCAGTTAATCAAATGTCATTTGTCAATT
GTTAATGTCATTTTAAATTAAAAGTGGTTTATTACTTGTTTAAATGACATAACTACACAGTTAGTTAAAAAAAT
TTTTTACAGTAATGATAGCCTCCAAGGCAGAAACACTTTTCAGTGTTAAGTTTTTGTACTTGTTCACAAGCCA
TTAGGGAAATTTTCATGGGATAATTAGCAGGCTGGTCTACCACCTGGACCATGTAAGTCTAGTGCTCTCCTGATT
CATGCCGTGATATTGGGATTTTTTTTCCAGCCTTCTGATGCCAAGGGGCTAATTAATATTAACAACCTCCCAAAG
AAACAGGCATAGAATCTGCCTCCTTTGACCTTGTTCATCACTATGAAGCAGAGTGAAAGCTGTGGTAGAGTGGT
TAACAGATACAAGTGTCTAGTTCTTAGTTCTCAATTAAGCACTAGTGGAATTTTTTTTTTTTGGATATATTAGCAA
GTCTGTGATGTAATTTCACTGGCTCTGTTTGTACATTGAGATTGTTTGTGTTAACAATGCTTTCTATGTTTCATATA
CTGTTTACCTTTTTCATGGAGTCTCCTGGCAAAGAATAAAATATATTTATTTT

1157/6881
FIGURE 1079A

ATGGCCAAGTCGGGTGGCTGCGGCGCGGGAGCCGGCGTGGGCGGCGGCAACGGGGCACTGACCTGGGTGAACAAT
GCTGCAAAAAAGAAGAGTCAGAAACTGCCAACAAAAATGATTCTTCAAAGAAGTTGTCTGTTGAGAGAGTGTAT
CAGAAGAAGACACAACCTTGAACACATTCTTCTTCGTCTGATACATATATTGGGTCAGTGAGCCATTGACGCAG
TTCATGTGGGTGTATGATGAAGATGTAGGAATGAATTGCAGGGAGGTTACCTTTGTGCCAGGTTTATACAAGATC
TTTGATGAAATTTTGGTTAATGCTGCTGACAATAAACAGAGGGATAAGAACATGACTTGTATTAAAGTTTCTATT
GATCCTGAATCTAACATTATAAGCATTGGGAATAATGGGAAAGGCATTCCAGTAGTAGAACACAAGGTAGAGAAA
GTTTATGTTCTGCTTTAATTTTTGGACAGCTTTTAACATCCAGTAACTATGATGATGATGAGAAAAAGTTACA
GGTGGTCGTAATGGTTATGGTGCAAACTTTGTAATATTTTCAGTACAAAGTTTACAGTAGAAACAGCTTGCAAA
GAATACAAACACAGTTTTAAGCAGACATGGATGAATAATATGATGAAGACTTCTGAAGCCAAAATTAAACATTTT
GATGGTGAAGATTACACATGCATAACATTCCAACCAGATCTGTCCAAATTTAAGATGGAAAACTTGACAAGGAT
ATTGTGGCCCTCATGACTAGAAGGGCATATGATTTGGCTGGTTCGTGTAGAGGGGTCAAGGTCATGTTTAAATGGA
AAGAAATTGCCTGTAAATGGATTTTCGCAGTTATGTAGATCTTTATGTGAAAGACAAATTGGATGAAACTGGGGTG
GCCCTGAAAGTTATTTCATGAGCTTGCAATGAAAGATGGGATGTTTGTCTCACATTGAGTGAAAAAGGATTCCAG
CAAATCAGCTTTGTAAATAGTATTGCAACTACAAAAGGTGGACGGCACGTGGATTATGTGGTAGATCAAGTTGTT
GGTAACTGATTGAAGTAGTTAAGAAAAAGAACAAAGCTGGTGATCAGTGAAACCATTTCAGTAAAAAACCAT
ATATGGGTTTTTATTAAATTCCTTATTGAAAAATCCAACCTTTTGATTCTCAGACTAAGGAAAACATGACTCTGCAG
CCCAAAAGTTTTGGGTCTAAATGCCAGCTGTCAGAAAAATTTTTAAAGCAGCCTCTAATTGTGGCATTGTAGAA
AGTATCCTGAACTGGGTGAAATTTAAGGCTCAGACTCAGCTGAATAAGAAGTGTTCATCAGTAAATACAGTAAA
ATCAAAGGTATTCCCAAATCGGATGATGCTAATGATGCTGGTGGTAAACATTCCCTGGAGTGACACTGATATTA
ACAGAGGGGAGACTCTGCCAAATCACTGGCTGTGTCTGGATTAGGTGTGATTGGACGAGACAGATACGGAGTTTTT
CCACTCAGGGGCAAAATCTTAATGTACGGGAAGCTTCTCATAAACAGATCATGGAAAATGCTGAAATAAATAAT
ATTATTAATAATAGTTGGTCTACAATATAAGAAAAGTTACGATGATGCAGAATCTCTGAAAACCTTACGCTATGGA
AAGATTATGATTATGACCGATCAGGATCAAGATGGTTCTCACATAAAAGGCCTGCTTATTAATTTTCATCCATCAC
AATTGGCCATCACTTTTGAAGCATGGTTTTCTTGAAGAGTTCATTACTCCTATTGTAAAGGCAAGCAAAAATAAG
CAGGAACCTTCTCTTACAGTATTCTTGAATTTGACGAATGGAAAAACATATAGAAAACAGAAAGCCTGGAAA
ATAAGTACTATAAAGGATTGGGTACTAGTACAGCTAAAGAAGCAAGGAATATTTGCTGATATGGAAGGCAT
CGCATCTTGTTTAGATATGCTGGTCTGAAGATGATGCTGCCATTACCTTGGCATTAGTAAGAAGAAGATTGAT
GACAGAAAAGAATGGTTAACAAATTTTATGGAAGACCGGAGACAGCGTAGGCTACATGGCTTACCAGAGCAATTT
TTATATGGTACTGCAACAAAGCATTGACTTATAATGATTTTCATCAACAAGGAATTGATTCTCTTCTCAAACCTCA
GACAATGAAAGATCTATACCATCTCTTGTGTAGGCTTTAAACCTGGCCAGCGGAAAGTTTTATTACCTGTTTC
AAGAGGAATGATAAACGTGAAGTAAAGTTGCCAGTTGGCTGGCTCTGTTGCTGAGATGTCGGCTTATCATCAT
GGAGAACAAAGCATTGATGATGACTATTGTGAATTTGGCTCAGAACTTTGTGGGAAGTAACAACATTAACCTTGCTT
CAGCCTATTGGTCAGTTTGGAACTCGGCTTCATGGTGGCAAAGATGCTGCAAGCCCTCGTTATATTTTCACAATG
TTAAGCACTTTAGCAAGGCTACTTTTTCTGCTGTGGATGACAACCTCCTTAAGTTCCTTTATGATGATAATCAA
CGTGTAGAGCCTGAGTGGTATATTCTTATAATTCCCATGGTTTTAATAAATGGTGTGAGGGCATTGGTACTGGA
TGGGCTTGTAACCTACCAACTATGATGCTAGGGAAATTGTGAACAATGTGACAGCAATGCTAGATGGCCTGGAT
CCTCATCCCATGCTTCCAACTACAAAACTTTAAAGGCACGATTCAAGAACCTGGTCAAAACAGTATGCAGTC
AGTGGTGAAATATTTGTAGTGGACAGAAACACAGTAGAAATTACAGAGCTTCCAGTTAGAACTTGGACACAGGTA
TATAAAGAACAGGTTTTAGAACCTATGCTAAATGGAACAGATAAAACACCAGCATTAAATTTCTGATTATAAAGAA
TATCATACTGACACAACGTGAAATTTGTGGTGAATAAGTACTGAAGAGAACTAGCACAGAAAGCTGCTGGA
CTGCATAAAGTTTTTAACTTCAAACCTACTTACTTGTAAATTCATGGTACTTTTGTATCATATGGGATGTCTG
AAGAAATATGAACTGTGCAAGACATTCTGAAAGAATCTTTGATTACGATTAAGTTATTACGTTTACGTAAG
GAGTGGCTTGTGGGAATGTTGGGAGCAGAATCTACAAAGCTTAAACAATCAAGCCCGTTTCATTTTAGAGAAGATA
CAAGGGAAAATTACTATAGAGAATAGGTCAAAGAAAGATTGATTCAAATGTTAGTCCAGAGAGGTTATGAATCT
GACCCAGTGAAAGCCTGGAAAGAAGCACAAGAAAAGGCAGCAGAGAGGATGAAACACAAAACAGCATGATGAT
AGTTCCTCCGATTACAGAACTCCTTCAGGCCCAGATTTAATTATATTTTAAATATGTCTCTGTGGTCTCTTACT
AAAGAAAAAGTTGAAGAAGTATTAAACAGAGAGATGCAAAAGGGCGAGAGGTCAATGATCTTAAAGAAAAATCT
CCTTCAGATCTTTGAAAGAGGATTTAGCGGCATTTGTTGAAGAACTGGATAAAGTGAATCTCAAGAACGAGAA

1158/6881
FIGURE 1079B

GATGTTCTGGCTGGAATGTCTGGAAAAGCAATTAAAGGTAAAGTTGGCAAACCTAAGGTGAAGAACTCCAGTTG
GAAGAGACAATGCCCTCACCTTATGGCAGAAGAATAATTCCTGAAATTACAGCTATGAAGGCAGATGCCAGCAAA
AAGTTGCTGAAGAAGAAGAAGGGTGATCTTGATACTGCAGCAGTAAAAGTGGAATTTGATGAAGAATTCAGTGGA
GCACCACTAGAAGGTGCAGGAGAAGAGGCATTGACTCCATCAGTTCCCTATAAATAAAGGTCCCAAACCTAAGAGG
GAGAAGAAGGAGCCTGGTACCAGAGTGAGAAAAACACCTACATCATCTGGTAAACCTAGTGCAAAGAAAGTGAAG
AAACGGAATCCTTGGTCAGATGATGAATCCAAGTCAGAAAGTGATTTGGAAGAAACAGAACCTGTGGTTATTCCA
AGAGATTCTTTGCTTAGGAGAGCAGCAGCCGAAAGACCTAAATACACATTTGATTTCTCAGAAGAAGAGGATGAT
GATGCTGATGATGATGATGATGACAATAATGATTTAGAGGAATTGAAAGTTAAAGCATCTCCATAACAAATGAT
GGGGAAGATGAATTTGTTCCCTTCAGATGGGTTAGATAAAGATGAATATACATTTTCACCAGGCAAAATCAAAAGCC
ACTCCAGAAAAATCTTTGCATGACAAAAAAGTCAGGATTTTGAAATCTCTTCTCATTTCCTTCATATCTCAG
AAGTCAGAAGATGATTCAGCTAAATTTGACAGTAATGAAGAAGATTCTGCTTCTGTTTTTTCACCATCATTGTTG
CTGAAACAGACAGATAAAGTTCCAAGTAAACCGTAGCTGCTAAAAAGGGGAAAACCGTCTTCAGATACAGTCCCT
AAGCCCCAAGAGAGCCCCAAAACAGAAGAAAGTAGTAGAGGCTGTAAACTCTGACTCGGATTGAGAATTTGGCATT
CCAAAGAAGACTACAACACCAAAAGGTAAAGGCCGAGGGGCAAAGAAAAGGAAAGCATCTGGCTCTGAAAATGAA
GGCGATTATAACCCTGGCAGGAAAACATCCAAAACAACAAGCAAGAAACCGAAGAAGACATCTTTTGATCAGGAT
TCAGATGTGGACATCTTCCCCCTCAGACTTCCCTACTGAGCCACCTTCTCTGCCACGAACCGGTGCGGCTAGGAAA
GAAGTAAATATTTTGCAGAGTCTGATGAAGAAGAAGATGATGTTGATTTTGCAATGTTTAATTAAGTGCCCAAA
GAGCACAAACATTTTCAACAAATATCTTGIGTTGTCTTTTGTCTTCTCTGCTCAGACTTTTGTACATCTGGC
TTATTTTAATGTGATGATGTAATTGACGGTTTTTTATTATTGIGGTAGGCCTTTTAACATTTTGTTCCTTACACAT
ACAGTTTTATGCTCTTTTTTACTCATTGAAATGTCACGTACTGCTGATTGGCTTGTAGAATTGTTATAGACTGC
CGTGCAATAGCACAGATTTTAATTGTCATGGTTACAAACTACAGACCTGCTTTTTGAAATGAAATTTAAACATTA
AAAATGGAACGTG

1159/6881
FIGURE 1080

MAKSGGCGAGAGVGGGNGALTWVNNAAKKEESETANKNDSSKKLSVERVYQKKTQLEHILLRPDTYIGSVEPLTQ
FMWVYDEDVGMNCREVTFVPGLYKIFDEILVNAADNKQRDKNMTCIKVSIDPESNIIISIWNNGKIPVVEHKVEK
VYVPALIFGQLLTSSNYDDDEKKVTGGRNGYGAKLCNIFSTKFTVETACKEYKHSFKQTWMNNMMKTSEAKIKHF
DGEDYTCITFPDLSEKFKMEKLDKDIVALMTRRAYDLAGSCRGVKVMFNGKKLPVNGFRSYVDLYVKDKLDETV
ALKVIHELANERWDVCLTLSEKGFQOISFVNSIATTKGGRHVDYVVDQVVGKLIIEVVKKNKAGVSVKPFQVKNH
IWFVINCLIENPTFDSQTKENMTLQPKSFGSKQLSEKFFKAASNCGIVESILNWVKFKAQTQLNKKCSSVKYSK
IKGIPKLDDANDAGGKHSLECTLILTEGDSAKSLAVSGLVIGRDRYGVFPLRGKILNVREASHQIMENAEINN
IIKIVGLQYKKSYYDDAESLKTLYGKIMIMTDQDQDGSNIKGLLINFIIHNWPSLLKHGFLEEFITPIVKASKNK
QELSFYSIPEFDEWKKHIENQKAWKIKYKGLGTSTAKEAKEYFADMERHRILFRYAGPEDDAAITLAFSKKKID
DRKEWLTNFMEDRRQRRLHGLPEQFLYGTATKHLTYNDFINKELILFSNSDNERSIPSLVDGFKPGQRKVLFTCF
KRNDKREVKVAQLAGSVAEMSAYHHGEQALMMTIVNLAQNFVGSNNINLLQPIGQFCTRLHGGKDAASPRYIFTM
LSTLARLLFPAVDDNLLKFLYDDNQRVEPEWYIPIIPMVLINGAEGIGTGWACKLPNYDAREIVNNVRMLDGLD
PHPMLPNYKNFKGTIQELGQNYAVSGEIFVDRNTVEITELPVRTWTQVYKEQVLEPMLNGTDKTPALISDYKE
YHTDITVKFVVKMTEEKLAQAEAAGLHKVFKLQTTLCNSMVLFDHMGCLKKYETVQDILKEFFDLRLSYGLRK
EVLVGLMGAESTKLNNQARFILEKIQGKITIENRSKDLIQMLVQRGYESDPVKAWKEAQEKAAEEDETONQHDD
SSSDSGTPSGPDFNYILNMSLWSTKEKVEELIKQORDAKGREVNDLKRKSPDLWKEDLAAFVEELDKVESQERE
DVLAGMSGKAIKKGKVGKPKVKKLQLEETMPSPYGRRIIPEITAMKADASKLLKKKKGDLDTAAVKVEFDEEFG
APVEGAGEEALTPSVPINKGPKPKREKKEPGTRVRKTPITSSGKPSAKKVKKRNPWSDESKSESLEETEPVVIP
RDSLLRRAAAERPKYTFDFSEEDDDADDDDDNNDLEELKVKASPIITNDGEDEFVPSDGLDKDEYTFSPGKSKA
TPEKSLHDKKSQDFGNLFSFPSYSQKSEDDSAKFDSNEEDSASVFSFGLKQTDKVPSTVAACKGKPSDTPV
KPKRAPKQKKVVEAVNSDSEFGIPKKTTPKKGKRGAKKRKASGENEGDYNPGRKTSKTTSSKKPKKTSFDQD
SDVDIFPSDFPTEPPSLPRTGRARKEVKYFAESDEEEDDVFAMFN

1160/6881
FIGURE 1081

GAGAAGGCCCCAGGAAGTGACGGCCGCTCCCGGCTACCGGGGACTTCTGGAGTCCGAGAAGTCAACGGCGCGGTT
GCTGCGGCCGCGCGCTCCCCGGCCCGAGGCGATGGAGAACGGAGCGGTGTACAGCCCCACTACGGAGGAGGACC
CGGGCCCCGCCAGAGGCCCGCGAGCGGCCTCGCTGCCTACTTTTTTCATGGGCCGGCTCCCATTTGCTCCGGCGCG
TTCTCAAGGGCTTGCACTGTTGCTGTCTCTGCTGGCCTTCACTGTGAAGAAGTTGTATCACAATGTACTTTAT
GTGGAGGACTTTATTTTTTTGAGTTTGTAAAGCTGCAGTGCCTTTCTTCTGAGTCTCCTTATACTGATTGTGTATT
GCACTCCATTTTATGAGAGAGTTGATACCACAAAAGTAAAATCATCGGATTTTATATTACTTTGGGAACAGGAT
GTGTGTTTTTGTGGCATCCAATCATTTTTGTTTCCACACATGACAGGACTTCAGCTGAGATTGCTGCAATTGTGT
TTGGATTATAGCAAGTTTTATGTTCTACTTGACTTTATCACTATGCTGTATGAAAAACGACAGGAGTCCCAGC
TGAGAAAACCTGAAAATACCACTAGGGCTGAAGCCCTCACTGAGCCACTTAATGCCATAAGACTCTGGGGAGCAG
ATGTTACCTAAGGTAGTGACCTGCAATTGTGGTGCCTGAGCCCTGGCAGAAGCTCTTGTAATAATTGTTAATTGT
TTAAACCACTTCTTTTGGAGAGCAAGGGGAAGGTCAAGAAGGCAGTTTTATCAATATTGTGTCAGTCACCACAA
GTAGGCCAGATAAGTTAAAAAAATTTTTTTTTAAATAATAATTGAACTTATCTCAAATGGAGATTTTGGTGGG
AGGAGGAGAAAACAATTGTTTTTAAATCACACAGCTCAACGGTTGATAAATGATTCTGTCATTCTGTTACAGGTC
ATTCCTTTACTAGGCTTAGCTTCCAAATTATGCTTTATAGCTGTATAAACATCGTGATTATATTCACTACTTAG
AAATTGTTTTATTTTTAAATTAATTTGCTTAGCTGTTTGTGTTGATGCTTAGATTATGTTCTGTTAATGGGAATT
TAACATATTTAAGAAACCAATATTTAAATGTTGGTCTAGGTTTTTTCCTTAACATATATTACCAGGCTTTACT
GTATTTCACTCAGCCTTAAATGTTATAATATTTTGGATAACGGTTATTAATCTTTGAGACCTTCGTATAGCCT
ATAAAATGTATGGGAGATGTTGGTATTTTATGTGTATAAAAGCAACAATATCAGCAACTTCGTGTTTATACTGCA
CCTTGTTGTTGATGTCAAGTAAAAAAGATTGTTTTGTAAACACATAAAAAATGGAAGAACTGATACCACAC
CTAAGGACCAAGATAAGAAAGACTTTTGGCCAAGACAGTGAAGTAATTATAAAACAAGCTTTGACCACTTA
CCAAGTATCTGAAGAGATGAGTTCATACTATGATTTAGAAAGTGGTTCGATTCCCCTGTTGGCATATGATTATTT
TTACTAAAATTAATACAGCTCTGTGGGTCTTCCTTAGTGTTTTCTTTGAAGCCAATCTGTTTTTTTTAGGACACC
AGCCTTTGGTTTTTCATCTGTTTCGAGATGCCCTCTCTCTGCTCCTTATCAGATAGAAATGGAGTCATGTGCTGC
TGCTTCATCTAGCAGAGGTTGGCCTCTGGCTCTGACACTTTTTGTGAGTTGTCTTTAGGTGGTCCTGAATCTTGG
GCCCTTTGATTGTGAATACTGTGTAGCAGGATCTTGAGAGTCCTTGTTCTTACATAGGCATTGCTCTAGTTTGT
CTTTGGCAAAAAAAAAAAAAAAAAAAAAA

1161/6881

FIGURE 1082

MENGAVYSPTTEEDPGPARGPRSGLAAYFFMGRLPLLRRVLKGLQLLLSLLAFICEEVVSQCTLCGGLYFFEFVS
CSAFLLSLLILIVYCTPFYERVDTTKVKSSDFYITLGTGCVFLLASIIFVSTHDRTSAEIAAIVFGFIASFMFLL
DFITMLYEKRQESQLRKPENTTRAELTEPLNA

1162/6881
FIGURE 1083

ATGGATGCTGTGTGCTATGGTGAAGCTGTTTCTTCCCAGCAGCAGGGAGAGAAAAAGGAGAAGAGGAAACACAAG
AAGAAATGCGTGGTGCAGAGCCTCAATTCTTACTTCATGGATGTGAAATGCCCAGGATGCTATAAAATCACTACA
GCAGTTTCTAATTCCTGCAATTTTCCCCTTAATGGCTCTCCGGATGTTGCCACTGATTATGGTGCCGTTTCATGGC
TCTTCAGCAGGTGCTGGGCATAGGCACCAGGAAGCCCTGTTTAATAGTGTGTCTGCCTTTCCCTTTACATGCTCCC
TCGGGTGAAGCAAGGCAGATGGAGAAGGCTTTAGCAGACAGCGTGGGCATGTTTCCAAGCCCTCAGGCTGCTGAG
CAACAATGCCGATGCCAGCACCAACAGGCTGAGGTGGCTTCTTCATTTTAG

1163/6881
FIGURE 1084

MDAVCYGEAVSSQQQGEKKEKRKHKKKCVVQSLNSYFMDVKCPGCKITTAVSNSCNFPLNGSPDVATDYGAVHG
SSAGAGHRHQEALFNSVSAFPLHAPSGEARQMEKALADSVGMFPSPQAAEQQCRCQHQAEEVASSF

1164/6881
FIGURE 1085

GCTAAAGGTGATGTGGCCGCCCTCAACCGACGCATCCAGCTCGTTGAGGAGAAGTTGGACAGGGCTCAGGAAAGA
CTGGCCACGGCCCCGCAGAAGCTGGAGGAGGCAGAAAAAGCTGCAGATGAGAGTGAGAGAGGAATGAAGGTGATA
GAAAACCGGGCCATGAAGGATGAGGAGAAGATGGAATTCAGGAGCTGCAGCTCAAAGAGGCCAAGCACATTGCG
GAAGAGGCTGACCGCAAATACTGGGAGGTAGCTCGTAAGCTGGTCTTCCTGGAGGGTGAGCTGGAGAGGGCAGAG
GAGCGTGTGGAGGTGTCTGAACTAAATGTGGTGACCTGAAGAAGAACTCAAGAATGTTACTAACAATCTGAAA
TCTCTGGAGGCTGCGTCTGAAAAGTATTCTGAAAAGGAGGACAAATGTGAAGAAGAAATTAACTTCTGTGTGAC
AAACTGAAAGAGGCTGAGACCCGTGCTGAATTTGCAGAGAGAACGGTTGCAAACTGGAAAAGACAATTGATGAC
CTGGAAGAGAACTTGCCAGGCCAAAGAAGAGAACGTGGGCTTACATCAGACACTGGATCAGACACTAAACGAG
CTTAAGTGTATATAAGCAAAACAGAAGAGTCTTGTTCCAACAGAACTCCGGAGCTCCGTGGGTCTTTCTCTTCT
CTTGTAAGAAGTTCCTTTTGTTATTGCCATCTTCGCTTGCTGGAAATGTCAAGCAAATTATGAATACATGACCA
AATATTTTGTATTGGAGAAGCTTTGAGCACGAGTTAAATCTCATGCCTTCCCTTTTTTTGTCAAATGGCACCAC
TTTTTCAGCTCTCTTATTTTTTTCCTTAAGTTGCATTTATTCCTAAGGTAGGCAGGGTATTTCTAGTAAGCATAG
TTTCTTAAGACAGAGGCCATTTGGTTCCTGGGAGAATAGGCAGCCCCACACTTTGAAGAACACAGACCCAGTAT
CTAGTCGTGGATATGATTAAAACGCTGAAGACCACAACCTTTGGGTCAACTGTTGGTCAAATATAGGAGAGAC
CAGGGACCACCCACTCCTATTTATTCAGCACCACACTACCCAGGAAATACACTAGCAAATTGTGCAATGGAATA
AAATCCACACTTTACTTTAGATTCTTGCAACTGTATCATATGTAATAGTATCACTTTTTCTACATTTTGGTCAAA
TAAATTTTACATAAACTAC

1165/6881
FIGURE 1086

AGCTCATCCACACTTCCAATCACTTTCCGGAGTGCTTCCCCTCCCTCCGGCCCGTGCTGGTCCCGACGGCGGGCC
TGGGTCTCGCGCGCGTATTGCTGGGTAACGGGCCCTTCTCCCGCGTCCGGCCCGGCCCTCCTGCCTCGGCTCGTCC
CTCCTTCCAGAACGTCCCGGGCTCCTGCCGAGTCAGAAGAAATGGGACTCCCTCCGCGACGTGCCCGGAGCAGCT
CCCTTCGCTGTGGAAGCGCGGTGTCTTCGAAGAAACCGGAAGCCCGTGGTGACCCCTGGCGACCCGGTTTGT
TCGGTCCGTTTCCAAACACTAAGGAATCGAAACTCGGCGGCCCTTGGGGGCGGCCCTACGTAGCCTGGCTTCTGGT
TGTCATGGATGCACTGGTAGAAGATGATATCTGTATTCTGAATCATGAAAAGCCCATAAGAGAGATACAGTGAC
CCCAGTTTCAATATATTAGGAGATGAATCTGTGCTTCCCATTTTGTCTTGTCACTGCATATGAAGACATCAA
AAAACGACTTAAGGATTAGAGAAAGAGAATCTTTGTTAAAGAGAGAATAAGATTTTGAAGAAAAGCTAAT
AGCTCGATTTGAAGAAGAAACAAGTTCCGTGGGACGAGAACAAAGTAAATAAGGCCTATCATGCATATCGAGAGGT
TTGCATTGATAGAGATAATTTGAAGAGCAAACCTGGACAAAATGAATAAAGACAACTCTGAATCTTTGAAAGTATT
GAATGAGCAGCTACAATCTAAAGAAGTAGAACTCCTCCAGCTGAGGACAGAGGTGGAAACTCAGCAGGTGATGAG
GAATTTAAATCCACCTTCAATCAAACTGGGAGGTGGAAAAGTTGAGCTGTGACCTGAAGATCCATGGTTTGAACA
AGAGCTGGAACCTGATGAGGAAAGAATGTAGCGATCTCAAAATAGAACTACAGAAAGCCAAACAACCGGATCCATA
TCAGGAAGACAATCTGAAGAGCAGAGATCTCCAAAACCTAAGCATTTCAAGTGATAATATGCAGCATGCATACTG
GGAACCTGAAGAGAGAAATGTCTAATTTACATCTGGTGACTCAAGTACAAGCTGAACTACTAAGAAAACCTGAAAAC
CTCAACTGCAATCAAGAAAGCCTGTGCCCTGTAGGATGCAGTGAAGACCTTGGAAAGAGACAGCACAAAACCTGCA
CTTGATGAATTTTACTGCAACATACACAAGACATCCCCCTCTCTTACCAATGGCAAAGCTCTTTGTCATACCAC
ATCTTCCCCTTTACCAGGAGATGTAAAGGTTTATCAGAGAAAGCAATCCTCCAATCATGGACAGACAATGAGAG
ATCCATTCCCTAATGATGGTACATGCTTTTCCAGGAACACAGTTCTTATGGCAGAAATCTCTGGAAGACAATTCCTG
GGTATTTCCAAGTCTCTCTAAATCAAGTGAGACAGCATTGGGGGAACTAAACTAAACTTTGCCTTTACCCAA
CCTTCCACCACTGCATTACTTGGATCAACATAATCAGAACTGCCCTTTATAAGAATTAAATTTGGAAGAGATTACG
ATTTACCATGAGGACACTTATCTCTTTTCAAGTGGTCTCCCAAGAAATTATTTAACAACTGAAAGGAGATTTG
ATTAATTTTTCAGAGGTCTTCAAGTATCTATTTTGAACACACTGTACAATAGTACAAAACCAACATAGTTGG
TTTTCTAGTATGAAAGAGCACCCCTCTAGCTCCATATTCTAAGAATCTGAAATATGCTACTATACTAATTAATAAG
TAACTTAAGGTGTTTAAAAAATCTGCCTTCTATATTAATTGTAAAATTTGCCTCTCAGAAGAATGGAATTGG
AGATTGTAGACGTGGTTTTACAAAATGTGAAATGTCTAAATATCTGTTTCAAAAAATAAAGGAAAACATGTTT
TTCAAATTGCATAATGGAACAAATGGCAATGTGAGTAGGTTACATTCTGTTGTTATAATGCGTAAAGATATTGA
AAATATAATGAAATAAAGCATCTTAGGTTATACCATCTTTATATGCTATTGCGTTTCAATATTTAAGATTTAAA
GTGATTTTTTGGTCACAGTGTGTTGTTGATAAAATTTTTTAGAATTGAAGTTGAATCTAAGACTTGAAACAA
CCTGATCATTGAAGCCAACCTTGTCCCAGCACATTCCTTAAGTCCTAATTGGGAAAAAAAAAAAAAAAAAAAA

1166/6881

FIGURE 1087

MDALVEDDICILNHEKAHKRDTVTPVSIYSGDESVASHFALVTAYEDIKKRLKDSEKENSLLKKRIRFLEEKLIA
RFEEETSSVGREQVNKAYHAYREVCIDRDNLKSCLDKMKNKDNSESLKVLNEQLQSKEVELLQLRTEVETQQVMRN
LNPPSSNWEVEKLSCDLKIHGLEQELELMRKECSDLKIELQKAKQTDPTYQEDNLKSRDLQKLSISSDNMQHAYWE
LKREMSNLHLVTQVQAELLRKLTSTAIKKACAPVGCSEDLGRDSTKLHLMNFTATYTRHPPLLPNGKALCHTTS
SPLPGDVKVLSEKAILQSWIDNERSIPNDGTCFQEHSSYGRNSLEDNSWVFPSPPKSSETAFGETKTKTLPLPNL
PPLHYLDQHNQNCLYKN

1167/6881
FIGURE 1088

GCATGGAGCCGGGGCGCCGGGGGGCGCGCGCTGCTAGCGCTGCTGTGCGTGGCCTGCGCGCTGCGCGCCGGG
CGCGCCCAATACGAACGCTACAGCTTCCGCAGCTTCCACGGGACGAGCTGATGCCGCTCGAGTCGGCCTACCGG
CACGCGCTGGACAAGTACAGCGGCGAGCACTGGGCCGAGAGCGTGGGCTACCTGGAGATCAGCCTGCGGCTGCAC
CGCTTGCTGCGCGACAGCGAGGCCCTTTCGCCACCGCAACTGCAGCGCCGCGCCGAGCCCGAGCCCGCGCCGGC
CTCGCCAGCTATCCCGAGCTGCGCCTTTCGGGGGCGCTGCTGCGCCGCGCGCACTGCCTCAAGCGCTGCAAGCAG
GGCCTGCCAGCCTTCCGCCAGTCCCAGCCCAGCCGCGAGGTGCTGGCGGACTTCCAGCGCCGCGAGCCCTACAAG
TTCCTGCAGTTGCTTACTTCAAGGCAAATAATCTCCCCAAAGCCATCGCCGCTGCTCACACCTTTCTACTGAAG
CATCCTGATGACGAAATGATGAAGAGGAACATGGCATATTATAAGAGCCTGCCTGGTGCCGAGGACTACATTAA
GACCTGGAAACCAAGTCATATGAAAGCCTGTTTCATCCGAGCAGTGCGGGCATACAACGGTGAGAACTGGAGAACA
TCCATCACAGACATGGAGCTGGCCCTTCCCGACTTCTTCAAAGCCTTTTACGAGTGTCTCGCAGCCTGCGAGGGT
TCCAGGGAGATCAAGGACTTCAAGGATTCTACCTTTCCATAGCAGATCATTATGTAGAAGTTCTGGAATGCAAA
ATACAGTGTGAAGAGAACCTCACCCAGTTATAGGAGGCTATCCGTTGAGAAATTTGTGGCTACCATGTATCAT
TACTTGCAAGTTTGCTTATTATAAGTTGAACGACCTGAAGAATGCAGCCCCCTGTGCAGTCAGTATCTGCTCTTT
GATCAGAATGACAAGGTCATGCAGCAGAACCTGGTGTATTACAGTACCACAGGGACACTTGGGGCCTCTCGGAT
GAGCACTTCCAGCCCAGACCTGAAGCAGTTCAGTTCTTTAATGTGACCACACTCCAGAAGGAGCTGTATGACTTT
GCTAAGGAAAATATAATGGATGATGATGAGGGAGAAGTTGTGGAATATGTGGATGACCTCTTGAACTGGAGGAG
ACCAGCTAGCCACAGCAACCAAGAGACTTCCTCTTGGCGTTTCAGGAAACACAGATTCTTTGTCCTTTTCCCAA
CAGCCCAGGCTGTTGATACCTCAGAGCCTTCTCTTTACTCTCCAAAGTGAAAGGGAAGCCCCCGTCTCTCTAACT
GCATGTCATCAGGGGTGAGCCTGCCTTTCTATCTTCACACCTGCCACCTCATGTTACACCTATCTTTCTCACC
TTTTTTTTGAGATGGAGTCTCGCTCTCTTGCCAGGCTGGAGTGCAATGGCACGTTCTCAGCTCACTGCAACCTC
CGCCTCTTGGGTTCAAGCAATCTGCTGCATCAGCCTCCCGAGTACCTGGGATTACAGGCATGTGCCACCAAGCC
CGGCTAATTTTGTATTTTGTAGTAGAGACGGGGTTTTGCCATGTTGGCCAGGCTGGTCTCGAACTCTTGACTTCAG
ATGATCCATCTGCCTTGGCCTCCACAGTGTGGGATTACAGGCGTGAGCCACCATGCCCGGCCTCTTTCTCACC
TTTACACCTGTCTTCTTATCCTCACATCTGTTTTACACCTTCATCCCTGTCTTCTCATGTTACACTTGTCTT
CCCCATGTTTCATAGCTGCCTTTCTTACCATTTTGGTTTGAAGGGCAGTCTTCTCTGGCTTGTTTTTTGTTTTTC
CCAGAAAATCAGTATTATTTTTAAATAAGAAAAACATTCCTAGAAGATGATAATTGTGAAAACCTCCTTTGGCT
TATTTGCTTTTCCAGATTTTAGTCTCCTTTCTCCCCATCCGGGAAAGATGGTGGAAAGACATAGGCTAAATTTCTC
CAGCCTCACAATGGTCTTCACTTGGTCTGACTTGTACCAATTCTAGCACCCACTGAAAAACAAGTTGAGTAGAGA
GTGTAGAGTGCAGAAATGTGGCTTTTGCCCCACTTTGCATCTCCAAAATTACAACGGTTGGCCGATCCCATTGTA
GGACAATGCTTAGTTATAAGTCTCCGAGTTGGAAAAGGAAGAAAGCCAGAGCTGTCTAGTTTCATTTCATTTTC
AGTAAATATTTATTGAGT

1168/6881
FIGURE 1089

GAATTCGGGCGCGAAGCGGCCGGCCTGGGCGCCGACTGCAGAGCCGGGAGGCTGGTGGTCAATGCCGGGGTTCCTG
GTTTCGCATCCTCCTTCTGCTGCTGGTTCTGCTGCTTCTGGGCCCTACGCGCGGCTTGC GCAATGCCACCCAGAGG
ATGTTTGAAATTGACTATAGCCGGGACTCCTTCCTCAAGGATGGCCAGCCATTTCGCTACATCTCAGGAAGCATT
CACTACTCCCGTGTGCCCCGCTTCTACTGGAAGGACCGGCTGCTGAAGATGAAGATGGCTGGGCTGAACGCCATC
CAGACGTATGTGCCCTGGAACCTTTCATGAGCCCTGGCCAGGACAGTACCAGTTTCTGAGGACCATGATGTGGAA
TATTTTCTTCGGCTGGCTCATGAGCTGGGACTGCTGGTTATCCTGAGGCCCGGGCCCTACATCTGTGCAGAGTGG
GAAATGGGAGGATTACCTGCTTGGCTGTAGAGAAAGAGTCTATTCTTCTCCGCTCCTCCGACCCAGATTACCTG
GCAGCTGTGGACAAGTGGTTGGGAGTCCTTCTGCCCAAGATGAAGCCTCTCCTCTATCAGAATGGAGGGCCAGTT
ATAACAGTGCAGGTTGAAAATGAATATGGCAGCTACTTTGCCTGTGATTTTGACTACCTGCGCTTCCTGCAGAA
CGCTTTCGCCACCATCTGGGGGATGATGTGGTTCTGTTTACCAGTATGGAGCACATAAAACATTCTGAAATGT
GGGGCCCTGCAGGGCCTCTACACCACGGTGGACTTTGGAACAGGCAGCAACATCACAGATGCTTTCCTAAGCCAG
AGGAAGTGTGAGCCCAAAGGACCCCTTGATCAATTCTGAATTCTATACTGGCTGGCTAGATCACTGGGGCCAACT
CACTCCACAATCAAGACCGAAGCAGTGGCTTCCTCCCTCTATGATATACTTGCCCGTGGGGCGAGTGTGAACCTG
TACATGTTTATAGGTGGGACCAATTTTGCCTATTGGAATGGGGCCAACTCACCTATGCAGCACAGCCACCAGC
TACGACTATGATGCCCCACTGAGTGAGGCTGGGGACCTCACTGAGAAGTATTTTGCTCTGCGAAACATCATCCAG
AAGTTTGAAAAAGTACCAGAAGGTCTATCCCTCCATCTACACCAAAGTTTGATATGGAAAGGTCACTTTGGAA
AAGTTAAAGACAGTGGGAGCAGCTCTGGACATTCTGTGTCCCTCTGGGCCCATCAAAGCCTTTATCCCTTGACA
TTTATCCAGGTGAAACAGCATTATGGGTTTGTGCTGTACCGGACAACACTTCCTCAAGATTGCAGCAACCCAGCA
CCTCTCTCTTACCCCTCAATGGAGTCCACGATCGAGCATATGTTGCTGTGGATGGGATCCCCCAGGGAGTCCTT
GAGCGAAACAATGTGATCACTCTGAACATAACAGGGAAAGCTGGAGCCACTCTGGACCTTCTGGTAGAGAACATG
GGACGTGTGAACTATGGTGCATATATCAACGATTTTAAGGGTTTGGTTTCTAACCTGACTCTCAGTTCCAATATC
CTCACGGACTGGACGATCTTTCCACTGGACACTGAGGATGCAGTGCAGCCACCTGGGGGGCTGGGGACACCGI
GACAGTGGCCACCATGATGAAGCCTGGGCCCACTCACTCAACTACACGCTCCCGGCCCTTTATATGGGGAAC
TTCTCCATTCCCAGTGGGATCCCAGACTTGCCCCAGGACACCTTTATCCAGTTTCCTGGATGGACCAAGGGCCAG
GTCTGGATTAATGGCTTTAACCTTGCCGCTATTGGCCAGCCGGGGCCCTCAGTTGACCTTGTTTGTGCCCCAG
CACATCCTGATGACCTCGGCCCAAACACCATCACCGTGTGGAAGTGGAGTGGGCACCCTGCAGCAGTGTGAT
CCAGAACTATGTGCTGTGACGTTTCGTGGACAGGCCAGTTATTGGCTCATCTGTGACCTACGATCATCCCTCCAAA
CCTGTTGAAAAAAGACTCATGCCCCACCCCGCAAAAAACAAAGATTTCATGGCTGGACCATGTATGATGATGA
AAGCCTGTGTCTTTGAGGGATTCTACCTGAACATACCTCACAGATCCTCCCTGTATGCCACATTTCACTGATT
GGAATGTGGAATGGAAAAGGAATTTAGGATGTGCATTTTCACCTGAGGTTTCCCTGCATCCCTGCAGTGCCAAA
GCCCCACCTTCAGGGACCACCTGGAATGTGTGAGGGGCTGACAGCACAGTAACGTGCATACATATCTGCAGGGCT
GGAATGGAAAGCTTTAAAGGIGGTAGTGATTTTATTTTGAAGAATCATGTTACCTTTTGTAAATAAAATTTG
CCCGAATTC

1169/6881
FIGURE 1090

MPGFLVRILLLLLVLLLLGPTRGLRNATQRMFEIDYSRDSFLKDGQPFRYISGSIHYSRVPRFYWKDRLLKMKMA
GLNAIQTYVPWNFHEPWPGQYQFSEDHDVEYFLRLAHELGLLVILRPGPYICAEWEMGGLPWALLEKESILLRSS
DPDYLAADVWKLVLLPKMKPLLYQNGGPVITVQVENEYGSYFACDFDYLRFLQKRFRHHLGDDVVLF TTDGAHK
TFLKCGALQGLYTTVDFTGSGNITDAFLSQRKCEPKGPLINSEFYTGWLDHWGQPHSTIKTEAVASSLYDILARG
ASVNLMYFIGGTNFAYWNGANSFYAAQPTS YDYDAPLSEAGDLTEKYFALRNIIQKFEKVPEGPIPPSTPKFAYG
KVTLEKLKTVGAALDILCPSGPIKSLYPLTFIQVKQHYGFVLYRTTLPQDCSNPAPLSSPLNGVHDRAYVAVDGI
PQGVLERNNVITL NITGKAGATDLLVENMGRVNYGAYINDFKGLVSNLTLSSNILDWTIFPLDTEDAVRSHLG
GWGHRDSGHHDEAWAHNSSNYTLPAFYMGNFSIPSGIPDLQDTFIQFPGWTKGQVWINGFNLGRYWPARGPQLT
LFVPQHILMTSAPNTITVLELEWAPCSSDDPELCAVTFVDRPVIGSSVTYDHP SKPVEKRLMPPPPQKNKDSWLD
HV

1170/6881
FIGURE 1091

CGCAGGCGGAGCGCAAGTCTGTCAGCCAGTCACTCCGCCAGTCCGCCAGCCAGTACCTCTCTCTCCTCGGCCCT
CGTAAGCTGTCCGCGGTCTGTTTGGCCCGAACGGCGGGGAGGCGCTGATCATGGCGACATTTCATCTCGGTGCAG
CTGAAAAAGACCTCAGAGGTGGACCTGGCCAGCCGCTGGTGAAGTTTCATCCAGCAGACTTACCCAGCGGGCGG
GAAGAGCAGGCCCCAGTACTGCCGCGCGGGGAGGAGCTCAGCAAGCTGCGCCGCGCCGAGTCCGTCGTCGCTG
GACAAGCAGGAGGGCGGCTCGAGACGCTCCTGAGATATTATGATCAGATTTGTTCTATTGAACCCAAATTCCTCA
TTTTCTGAAAATCAGATCTGCTTGACATTTACCTGGAAGGATGCTTTTCGATAAAGGTTCACTTTTGGAGGCTCT
GTAAACTGGCTCTTGCAAGCTTAGGATATGAAAAGAGCTGTGTGTTGTTCAATTGTGCAGCCTTAGCTAGCCAA
ATTGCAGCAGAACAGAACCTGGATAATGATGAAGGATTGAAAATCGCTGCTAAACATTACCAGTTTGTAGTGGT
GCCTTTTTACATATTAAAGAGACGGTTTTATCTGCCTTAAGTCGAGAGCCGACCGTGGACATATCTCCAGATACT
GTTGGGACCTCAGTCTTATTATGCTGGCACAGGCTCAAGAAGTATTTTTTTAAAGCCACAAGAGATAAAATG
AAAGATGCCATCATAGCTAAATTGGCTAATCAGGCTGCAGATTATTTGGTGATGCTTTCAAACAGTGTCAATAC
AAAGATACTCTCCCCAAGGAGGTGTTCCCTGTCTTGGCTGCAAAGCACTGTATCATGCAGGCCAATGCTGAGTAC
CATCAGTCTATCCTGGCAAACAGCAGAAGAAATTTGGAGAAGAAATTGCAAGGTTACAGCATGCAGCAGAAGT
ATTAAACAGTGGCATCTCGCTATGATGAATATGTTAATGTGAAGGATTTTCTGACAAAATCAATCGTGCCCTT
GCTGCAGCAAAGAAGGATAATGACTTCATTTATCATGATCGAGTTCAGACCTTAAAGATCTAGATCCTATTGGC
AAAGCCACACTTGTGAAATCTACCCCGGTCAATGTACCCATCAGTCAGAAATTTACTGATCTGTTTGAGAAGATG
GTTCCCGTGTGAGTACAGCAGTCTTGGCTGCCTATAATCAGAGGAAAGCCGATTGGTTAACAGATCAATTGCT
CAGATGAGAGAAGCCACCCTTTGGCAAATGGGGTGCTAGCTTCCCTTAATCTTCCAGCAGCAATTGAAGATGTG
TCTGGAGACACTGTACCTCAGTCTATATTGACTAAATCCAGATCTGTGATTGAACAGGGAGGCATCCAGACTGTT
GATCAGTTGATTAAAGAAGTGCCTGAATTACTGCAACGAAATAGAGAAATCCTAGATGAGTCATTAAAGTTGTG
GATGAAGAAGCAACCGATAATGATTTAAGAGCAAAATTTAAGGAACGTTGGCAAAGGACACCATCCAATGAA
CTGTATAAGCCTTTAAGAGCAGAGGGAACCAACTTCAGAACAGTTTTAGATAAAGCTGTGCAGGCAGATGGACAA
GTGAAAGAATGTTACCAGTCTCATCGTGACACCATCGTGCTTTTGTTGAAGCCAGAGCCTGAGCTGAATGCTGCC
ATCCCTTCTGCTAATCCAGCAAAGACCATGCAGGGCAGTGAGGTTGTAATGTCTTAAATCCTTATTGTCAAAT
CTTGATGAAGTAAAGAAGGAAAGAGAGGGTCTGGAGAATGACTTGAAATCTGTGAATTTGACATGACAAGCAAG
TTTTTGACAGCCCTGGCTCAAGATGGTGTGATAAATGAAGAAGCTCTTCTGTTACTGAACTAGATCGAGTCTAT
GGAGGTCTTACAACATAAGTCCAAGAATCTCTAAAGAAACAGGAGGGACTTCTTAAAAATATTAGGTCTCACAT
CAGGAATTTTCAAAAATGAAACAATCTAATAATGAAGCTAACTTAAGAGAAGAAGTTTGAAGAATTTAGCTACT
GCATATGACAACCTTTGTTGAACCTGTAGCTAATTTGAAGGAAGGCACAAAGTTTACAATGAGTTGACTGAAATC
CTGGTCAGGTTCCAGAACAAATGCAGTGATATAGTTTTTGCACGGAAGACAGAAAGAGATGAACCTCTTAAAGGAC
TTGCAACAAAGCATTGCCAGAGAACCTAGTGCTCCTTCAATTCCTACACCTGCGTATCAGTCCCTACCAGCAGGA
GGACATGCACCAACTCCTCCAATCCAGCGCCAAGAACCATGCCGCTACTAAGCCCCAGCCCCAGCCGAGGCT
CCACCACCTGTGCTTCCAGCAAATCGAGCTCCTTCTGCTACTGCTCCATCTCCAGTGGGGGCTGGGAGTGTGCG
CCAGCTCCATCACAAACGCTGGCTCAGCTCCTCCTCCACAGGCGCAGGGACCACCCTATCCCACCTATCCAGGA
TATCCTGGGTATTGCCAAATGCCCATGCCATGGGCTATAATCCTTATGCGTATGGCCAGTATAATATGCCATAT
CCACCAGTGTATCACCAGAGTCTTGACAGGCTCCATACCCGGGACCCAGCAGCCTTCATACCCCTTCCCTCAG
CCCCACAGCAGTCTTACTATCCACAGCAGTAAATATGTCTGCTCAGCAGCTCAGCTGATTCAGATCAGAGGGAAA
GAAATACCAACCCTGCAATAAGTGTACTAACTCTACGCTCTGGTTAATGTAATGTACTCTCCTGGACTGAATGC
AGTGTATAATTTCTGTCTACAGCTAGAAGCTGTGCCCCAGTTCACATTGATTACACATGTGAGATTGTGCTGCT
GTTGCAGTATAAACTAGGTATAATAGGATTTGAAATGCATTACAGTTCATAAAAAATGAAAATGAGAAATTA
AACCTGCAAGTGAAACATTTGAAACGATTATACTTTCTACATAAGACATGGTTGGGACATCAGATACTTACAAAG
ATGGTTTAAAGTATGGATACTAGAGAAAATTAAGTTTTCTTCTTTGGTTTATTGATTGGTTTAAATTTCCATT
ATGCTATTTTGCAATCAAGGCACGTAAATCTTATAATTTTAAATAAATTACTTAAGAAC

1171/6881
FIGURE 1092

MATFISVQLKKTSEVDLAKPLVKFIQQTYPSGGEEQAQYCRAAEELSKLRRAAVGRPLDKHEGALETLLRYYDQI
CSIEPKFPFSENQICLTFTWKDAFDKGSLSFGGSVKLALASLGYEKSCVLFNCAALASQIAAEQNLDNDEGLKIAA
KHYQFASGAFLHIKETVLSALSREPTVDISPDTVGTLSLIMLAQAQEVFFLKATRDKMKDAIIAKLANQAADYFG
DAFKQCQYKDTLPKEVFPVLAAKHCIMQANA EYHQSI LAKQKKFGEEIARLQHAAELIKTVASRYDEYVNVKDF
SDKINRALAAAKKDNDFIYHDRVPLDKDLDP I GKATLVKSTPVNVPISQKFTDLFEKMPVPSVQQSLAAYNQKA
DLVNRSIAQMREATTLANGVLASLNLPA AIEDVSGDTPVQSILTKSRSVIEQGGIQTVDQLIKELPELLQRNREI
LDESLRLLDEEEATDNDLRKFKERWQRTPSNELYKPLRAEGTNFRTVLDKAVQADGQVKECYQSHRDTIVLLCK
PEPELNAAIP SANPAKTMQGSEVVNLKSLLSNLDEVKKEREGLNDLKS VNFDMTSKFLTALAQDGVINEEALS
VTELD R VYGG LTTKVQESLKKQEGLLKNIQVSHQEF SKMKQSNNEANLREEVLKNLATAYDNFVELVANLKEGTK
FYNELTEILVRFQNKCSDIVFARKTERDELLKDLQQSIAREPSAPSIPTPAYQSSPAGGHAPTPTPAPRTMPPT
KPQPPARPPPPVLPANRAP SATAPSPVGAGTAAPAPSQTGPSAPPPQAQGPYPYTPGYPGYCMPPMPMGYNFYA
YGQYNMPYPPVYHQSPGQAPYPGPQQPSYFPFPQPPQQSYYPQQ

1172/6881
FIGURE 1093A

TTGGCCCGTGCCTGGGGCTGGGGTGGAGGGCGGGACAGAGGGGCTGGGCCAGGCAAAGCTTCTGTGCTGCTGC
TGCGGAGGCCGAGGACAGGACGTGGGCTGGGCCGGGCAGTGCCGGACTCGGAGGAGCAGGAGGCGAGGTCCGCCG
GAGCTCTGAACCCCGCTGCTCTGCCGCGGGTGACCCCGCGCCCGGCCGCTCCGACCCGTGGCTGTTCCGAG
ACGATTGGTGGGGGCGCGCGCGGGCGGGCGGGCTGTTGGGGTGGGGAGACGCGCGGCGAGGAGACGAGCGAG
GTCAGCGAGTTTGAGGGAGGACCGCGAGCCGCTGCCGCCGTCAATGTCCGAAGACTCGAGCGCCCTGCCCTGGTCC
ATCAACAGGGACGATTACGAGCTGCAGGAGGTGATCGGGAGTGGAGCAACTGCTGTAGTCCAAGCAGCTTATTGT
GCCCCAAAAAGGAGAAAGTGGCAATCAAACGGATAAACCTTGAGAAATGTCAAACCTAGCATGGATGAACCTTG
AAAGAAATTCAGCCATGAGTCAATGCCATCATCTAATATTGTATCTTACTACACATCTTTTGTGGTAAAGAT
GAGCTGTGGCTTGTCTAGAGCTGCTAAGTGGAGGTTCTGTTCTGGATATTATTAAGCACATTGTGGCAAAAGGG
GAACACAAAAGTGGAGTCTAGATGAATCTACCATTGCTACGATACTCCGAGAAGTACTGGAAGGCTGGAATAT
CTGCATAAAAAATGGACAGATCCACAGAGATGTGAAAGCTGGAAACATTCTTCTGGAGAAGATGGCTCAGTACAG
ATTGACAGACTTTGGGGTTAGTGCTTTTTTAGCAACTGGTGGTGATATTACCGAAAATAAAGTGAGAAAGACCTTT
GTTGGCACCCCTTGTGGATGGCACCTGAAGTTATGGAACAGGTCCGTGGTTATGATTTCAAAGCTGATATTTGG
AGTTTTGGAATTACAGCAATTGAATTGGCTACAGGGGCGGCTCCTTATCATAAAATATCCACCAATGAAGGTTTTA
ATGCTGACACTGCAGAACGATCCTCCTTCTTTGGAACTGGTGTTCAGATAAAGAAATGCTGAAAAAATATGGA
AAATCATTTAGAAAAATGATTTTCAATTGTGCCCTCAAAAAGATCCAGAAAAAGACCAACAGCAGCAGAACTATTA
AGGCACAAATTTTCCAGAAAGCAAAGAATAAAGAATTTCTCAAGAAAAACATTGCAGAGAGCACCACCTATT
TCTGAAAGAGCAAAAAAGGTTCCGAGAGTACCAGGTTCCAGTGGGCGTCTTCATAAGACAGAGGATGGAGGCTGG
GAGTGGAGTGATGATGAATTTGATGAAGAAAGTGAAGGAGGAAAGCAGCAATTCACAACCTCAGGCTCCCCGA
GTGAAGAATCAATATCAAATCTGAGCTCTTTCCAACAACCTGATCCTGTGGGTACTTTGCTCCAAGTTCCAGAA
CAGATCTCTGCTCATCTACCTCAGCCAGCTGGGCAGATTGCTACACAGCCAACCTCAAGTCTCTCTCCACCCACC
GCAGAGCCAGCAAAAACAGCTCAGGCTTTGTCTCAGGATCAGGTTCAACAAGAAACCAAGATCCCAATCAGTCTA
GTACTAAGATTAAGGAATCCAAAAAAGAACTAAATGATATTGCAATTTACTCTGGGAGAGATACAGCA
GAGGGTGTCTCTCAGGAACCTATTCTGCTGGCCTGGTCGACGGGATTTAGTAATAGTGGCAGCTAATTTG
CAGAAAATTTGGAAGAACCCTCAGTCAAATCGATCTGTCACTTTCAAACCTGGCATCTGGTGTGCAAGGCTCAGAT
ATTCCTGATGATGGTAAACTGATAGGATTTGCCAGCTCAGCATCAGCTAAACCACAACCCCTGGAAGAGGCGGCC
TAAGGAGATTCACACATGCGTATCTCTGTTGCTTCTATTTGCTTAAACCTACTGCCAAAGAACCAGCAAC
AAACCTCCCGGCTAGGAGCTTTAGAAGTCTTTATGTTCTTCTTCCCTGCCATCATTCTCTTTTCCACAGGGAAAGA
AAAGTTGGATCACTAGTGGCCAGCATCCCCAGAGTTCCGTTAGTAAACTTACTTCATATGTCCCCTGTCTTCTC
CATCTGAGAAGTGGCCCATGTGCTTCAAGGCCAGGAGGAGATCTGTGAGCTCATTCTTGCTTACTCCAATGA
TGGCCCAGGTGGAAGAAGTAGCAGCTGTATCGGGCTTCTCATCCTGCTTCCCCACACCTGCCAGGATATGG
ACATCTTGGGATATCTCTTTACCACTGAAGTAGAATTGATTGTTTCAAGCTGGAGCCCAGAGAATTTAATTTAATGT
TTTTTCTTTGTACCTGATGTGAATCTAGCAACCTTTGTTAGGAAAAAGCACAGCCTCAGATGGAGGCAGCCTAA
ACTGTGTTCTTTGTTTGTTCATGGTGTCTTAAGCGTTTTGCTGAAGCTGCTCTCAGGCACCCCTTCTTCATTG
CTCTCTCCAGAAAGGTTGCTAGCCTTAACCTCAGCTGGTGAAAACATCTGACTGTAGCCGAACCTCAGCCATC
AGATCCTTCAAAGTGAACCTTTGGATTGTTTTTACAGACAACATCGAGTAATGGCTTGTAAATGTGAATTTTGGC
AGAGGTGGTTTTTGAACAGGAAAATCATAATTCATATCATTGGAGAAGTATTTATTTTCAAATATCAAATTGAAG
AAAAACTCAATCTCCCATGAAAATCAGTTTCGCTGGCCTCCAAGTCGTGAGGAAATGGGTATGCAAGGCTGAGA
TTTCTACAGCAATAAAGGAGACACACTGGGCCAGAGAGGCTGCCTTCTGCCTGCTCTCCTGCACTGACCCCTT
TGGAGGGGGTCTCTGTGTGCTGAAGCTAACTCAAGATGGAAGTGAACCACATGTGCCGTGACCTTTAGGTTTT
ATGAGTAGACAGTGTTCAATTTGATTTTCTACAGAAATAATATAAATTATTCTTTAGGTTTTAAAAAGAGCACTCA
TAATGCAATATGTGAATAATCAGTGAGGTTGATTTTTCTTTTTTCTACCCTTTCATAGTCTTTGTCTAACTGCT
AGTAACCCCTACCGAGTTTTATATATGAGTGGGATACTCAATCTGGCCTTAAAAAGATACACAAAGATGGGCTGTG
GGTCCCTGGAAGGGGAGAGGTTGCCCTTTACAGAATCACTCGAGCCCTTCCAGCACTGTTGGTCTGATGAACA
AGGTTGTTTTACCTTATTTTCTTGGAACATATCTGAAAACCTTCCCCACAAATAACTTGTACACCTTTTGT
TCATTCTGAGTCTTTAGTTTTTAGTCATGGGCTTTCTTCACTGCTCTAGGTGCAAAGGCATGTTGGGAAAGAGAT
GGATGTTGGGGAGGAAGAGAGAGATGGATTTCAGTTGGGAGTTAGGAGGAGAGTAGGTGAGATGATCAGACACC
GGAGTTCAACGTCCACGAGTCTTGGTAAAAGGAGGAGCCTGCTGAGCCAGGAGGGAGAAAAGAAGATTGACCA

1173/6881

FIGURE 1093B

GCTTGCTAGAAAAATACTTAGCTTTTCTTTTTCTTTTTTGTGGAGGGGGGACGGAGAGGAACAAGGATGGGGAG
GTAGGAATGAGGTATAGAAAAGAGATAGCATCTTCTTTGGCACAAGAATAGTGGCTTACCGCTTACCTTAGAGTT
TTGTTTTTTTTTTTTCAAACCCATCAAAATCTACTTATTTATGAATCCAAGGGGTGGCAGCATCACTCTGTTCTA
GCATTCTTTGTGGAGATGGTCTGGTGCCTAGCTGGGAGTGAGCAGCAGCCCATCCCCTGTTCACTTTCTCTAGCC
CATCATTACCTGTGAAGTGCAGTGGGGCAGTCATGGCAAATAGAATTGGGCTGGGGTTTCTCCTTCTTTTCAGTT
CATTGTTTGCCCTGCTAGGAATTAGAAGACAGACACCATGTCCCAGGACAGTGTACTTCTTCTGCATGATGTGT
GGTAGACTCCCTTTGCTGGCTTGTGCAGTGATACTGAGAAAATACATGAACAGAACTGCCCAGGTGGAACAGCA
CGTAACCTAGTGAGTGACTGTACTCCTTTCTAGGAATGCTGATTCAGAGTGCACCTCTTTGACTAGGTCCCAGGA
TCCCCTTGTCCTGGAGTAGGGACTAACTATAGCACAAAGTAATATGTGCCAATGCTATTTGTGAAATGTTGGT
CTTTCTAAACGACTAAAGGATTTGTTGGGTTTTTGCTTAAGTTTTGAACCAAATCCTAGAGCCAGCTGATAATAT
TTAATAATCTGGAGGAGAGAATAATGATGTACCAATAAGTGGAGATTCTCCTTATGATGTATGCTAGGTTATGG
AAGATGTAAAATATTCAACTTTTCTCCTTTTTTGGACTTTGTATTTTACTGCATGTTTTCTTCATTTTAAAT
CAATAAAGAGTAAATTGTC

1174/6881
FIGURE 1094

MSEDSSALPWSINRDDYELQEVI GSGATAVVQAAYCAPKKEKVAIKRINLEKCQTSMD ELLKEIQAMSQCCHHPNI
VSYYTSFVVKDELWLVMKLLSGGSVLDIIKHIVAKGEHKSGVLD E STIATILREVLEGLEYLHKNGQIHRDVKAG
NILLGEDGSVQIADFGVSAFLATGGDITRNKVRKTFVGT PCWMAPEVMEQVRGYDFKADIWSFGITAI ELATGAA
PYHKYPPMKVLM LTLQNDPPSLETGVQDK EMLKKYGKSFRKMISLCLQKDPEKRPTAAELLRHKFFQKAKNKEFL
QEKTLQRAPTISERAKKVRVP GSSGR LHKTEDGGWEWSDEFDEESEEGKAAISQLRSPRVKESISNSELFPTT
DPVGTLLQVPEQISAHLPQPAQIATQPTQVSLPPTAEPAKTAQALSSGSGSQETKIPISLVLR LRNSKKELNDI
RFEFTPGRDTAEGVSQELISAGLVDGRDLVIVAANLQKIVEEPQSNRSVTFKLASGVEGSDIPDDGKLIGFAQLS
IS

1175/6881
FIGURE 1095

ATGCGACCCGACCGCGCTGAGGCTCCAGGACCGCCCCGCAATGCTGCAGGAGGTCCCGGCGCGGGGTCTGCGGCC
CCGGTCTCCTCCACATCCTCCCTTCCCTTGGCTGCTCTCAACATGCGAGTGCGGCGCGCCTGTCTCTGTTCTTG
AACGTGCGGACACAGGTGGCGGCCGACTGGACCGCGCTGGCGGAGGAGATGGACTTTGAGTACTTGGAGATCCGG
CAACTGGAGACACAAGCGGACCCCACTGGCAGGCTGCTGGACGCTTGGCAGGGACGCCCTGGCGCCTCTGTAGGC
CGACTGCTCGAGCTGCTTACCAAGCTGGGCCGCGACGACGTGCTGCTGGAGCTGGGACCCAGCATTGAGGAGGAT
TGCCAAAAGTATATCTTGAAGCAGCAGCAGGAGGAGGCTGAGAAGCCTTTACAGGTGGCCGCTGTAGACAGCAGT
GTCCACCGACAGCAGAGCTGGCGGGCATCACACACTTGATGACCCCTGGGGCATATGCCTGAGCGTTTCGAT
GCCTTCATCTGCTATTGCCCCAGCGACATCCAGTTTGTGTCAGGAGATGATCCGGCAACTGGAACAGACAACTAT
CGACTGAAGTTGTGTGTGTCTGACCGCGATGTCTGCTGGCACCTGTGTCTGGTCTATTGCTAGTGAGCTCATC
GAAAAGAGGTGCCGCGCGATGGTGGTGGTTGTCTCTGATGATTACCTGCAGAGCAAGGAATGTGACTTCCAGACC
AAATTTGCACTCAGCCTCTCTCCAGGTGCCCATCAGAAGCGACTGATCCCCATCAAGTACAAGGCAATGAAGAAA
GAGTTCCCCAGCATCCTGAGGTTTCATCACTGTCTGCGACTACACCAACCCCTGCACCAATCTTGGTTCTGGACT
CGCCTTGCCAAGGCCTTGTCCCTGCCCTGAAGACTGTTCTGAGGCCCTGGGTGTGTGTGTATCTGTCTGCCTGTC
CATGTACTTCTGCCCTGCCTCCTCCTTTTCGTTGTAGGAGGAATCTGTGCTCTACTTACCTCTCAATTCTGGAGA
TGCCAACTTCACAGACACGTCTGCAGCAGCTGGACATCACATTTTCATGTCTGCATGGAACCAAGTGGCTGTGAGT
GGCATGTCCACTTGTGATTATCAGCCAGGACACTATAGAACAGGACCAGCTGAGACTAAGAAGGACCAGCAGA
GCCAGCTCAGCTCTGAGCCATTACACATCTTCACCTCAGTTTCCTCACTTGAGGAGTGGGATGGGGAGAACAG
AGAGTAGCTGTGTTTGAATCCCTGTAGGAAATGGTGAAGCATAGCTCTGGGTCCTTGGGGGAGACCAGGCTTGG
CTGCGGGAGAGCTGGCTGTGTGCTGGACTACATGCTGGCCACTGCTGTGACCACGACACTGCTGGGGCAGCTTCTT
CCACAGTGATGCCTACTGATGCTTCAGTGCCCTCTGCACACCGCCCATTCACCTCCTCCTTCCCCACAGGGCAGG
TGGGGAAGCAGTTTGGCCCAGCCCAAGGAGACCCCATCTTGAGCCTTATTTCTAATGGGTCCACCTCTCATCTG
CATCTTTCACACCTCCCAGCTTCTGCCCCAACCCTTCAGCAGTGACAAGTCCCCAAGAGACTCGCCTGAGCAGCTTG
GGCTGCTTTTTCATTTCCACCTGTGAGGATGCCTGTGGTTCATGCTCTCAGCTCCACCTGGCATGAGAAGGGATCCT
GGCCTCTGGCATATTTCATCAAGTATGAGTTCTGGGGATGAGTCACTGTAATGATGTGAGCAGGGAGCCTTCTCTC
CTGGGCCACCTGCAGAGAGCTTTCCACCAACTTTGTACCTTGATTGCCTTACAAAGTTATTTGTTTACAAACAG
CGACCATATAAAAGCCTCCTGCCCCAAAGCTTGTGGGCACATGGGCACATACAGACTCACATACAGACACACACA
TATATGTACAGACATGTACTCTCACACACACAGGCACCAGCATACACACGTTTTTCTAGGTACAGCTCCAGGAA
CAGCTAGGTGGGAAAGTCCCATCACTGAGGGAGCCTAACCATGTCCCTGAACAAAATTGGGCACCTCATCTATT
CTTTCTCTTGTGTCCCTACTCATTGAAACCAACTCTGGAAGGACCCAATGTACCAGTATTTATACCTCTAAT
GAAGCACAGAGAGAGGAAGAGAGCTGCTTAACTCACACAACAATGAACTGCAGACACAGCTGTTCTCTCCCTCT
CTCCTTCCCAGAGCAATTTATACTTTACCTCAGGCTGTCTCTGGGGAGAAGGTGCCATGGTCTTAGGTGTCTG
TGCCCCAGGACAGACCCTAGGACCCTAAATCCAATAGAAAATGCATATCTTTGCTCCACTTTCAGCCAGGCTGGA
GCAAGGTACCTTTTCTTAGGATCTTGGGAGGGAATGGATGCCCTCTCTGCATGATCTTGTGAGGCATTTAGCT
GCCATGCACCTGTCCCCCTTAATACTGGGCATTTTAAAGCCATCTCAAGAGGCATCTTCTACATGTTTTGTACG
CATTAAATAATTTCAAAGATATCTGAGAAAAGCCGATATTTGCCATTCTTCTATATCTGGAATATATCTTGC
ATCCTGAGTTTATAATAATAATAATATTCTACCTTGGAAAAAAAAAAAAAA

1176/6881
FIGURE 1096

MAAGGPGAGSAAPVSTSSLPLAALNMRVRRRLSLFLNVRTQVAADWTALAEEMDFEYLEIRQLETQADPTGRLL
DAWQGRPGASVGRLLLELLTKLGRDDVLELGPSEEDCQKYILKQQQEEAEKPLQVAADVSSVPRTAELAGITTL
DDPLGHMPERFDAFICYCPSDIQFVQEMIRQLEQTNRYRLKLCVSDRDVLPGTCVWSIASELIEKRCRRMVVVSD
DYLQSKECDFQTKFALSLSPGAHQRLIPIKYKAMKKEFPSILRFITVCDYTNPCTKSWFWTRLAKALSLP

1177/6881
FIGURE 1097

ATGTGGTTCTGCGCGTGTGCGGACGGCTGTCTGTAACTCCGCGGTCAAGTCCCGGACTGGTGGCTGGTCTGCAG
GGTTGACCTGCGCAATGCAGAGGCTGCAGGTAGTGTCTGGGCCACCTGAGGGGTCCGGCCGATTCCGGCTGGATGC
CGCAGGCCCGCCTTGCCCTGAGCGGTGCCCCGAGGCCTCGGCCCGGACGTGGTGGTGGTGCACGGCGGGCGCA
CGGCCATCTGCCGGGCGGGCCGCGCGGCTTCAAGGACACCACCCCGACGAGCTTCTCTCGGCAGTCATGACCG
CGGTTCTCAAGGACGTGAATCTGAGGCCGGAACAGCTGGGGGACATCTGTGTGCGAAATGTGCTGCAGCCTGGGG
CCGGGGCAATCATGGCCCCAATCGCCAGTTTCTGAGTGACATCCCGGAGACTGTGCCTTTGTCCACTGTCAATA
GACAGTGTTCGTGCGGGCTACAGGCAGTGGCCAGCATAGCAGGTGGCATCAGAAATGGGTCTTATGACATTGGCA
TGGCCTGTGGGTGGAGTCCATGTCCCTGGCTGACAGAGGGAACCTGGAAATATTACTTCGCGCTTGATGGAGA
AGGAGAAGGCCAGAGATTGCCCTGATTCTATGGGGATAACCTCTGAGAATGTGGCTGAGCGGTTTGGCATTTCAC
GGGAGAAGCAGGATACCTTTGCCCTGGCTTCCAGCAGAAGGCAGCAAGAGCCCAGAGCAAGGGCTGTTTCCAAG
CTGAGATTGTGCCTGTGACCAACACGGTCCATGATGACAAGGGCACCAAGAGGAGCATCACTGTGACCCAGGATG
AGGGTATCCGCCCCAGCACCACCATGGAGGGCTGGCCAACTGAAGCCTGCCTTCAAGAAAGATGGTTCTACCA
CAGCTGGAAGTCTAGCCAGGTGAGTGATGGGGCAGCTGCCATCCTGCTGGCCCGGAGGTCCAAGGCAGAAGAGT
TGGGCCTTCCCATCCTTGGGGTCTGAGGTCTTATGCAGTGGTTGGGGTCCCACCTGACATCATGGGCATTGGAC
CTGCCTATGCCATCCCAGTAGCTTTGCAAAAAGCAGGGCTGACAGTGAGTGACGTGGACATCTTCGAGATCAATG
AGGCCTTTGCAAGCCAGGCTGCCTACTGTGTGGAGAAGCTACGACTCCCCCTGAGAAGGTGAACCCCTGGGGG
GTGCAGTGGCCTTAGGGCACCCACTGGGCTGCACTGGGGCACGACAGGTCAACGCTGCTCAATGAGCTGAAGC
GCCGTGGGAAGAGGGCATAACGGAGTGGTGTCCATGTGCATCGGGACTGGAATGGGAGCCGCTGCCGTCTTGAAT
ACCCTGGGAAGTGAAGTGGAGGTCCCAGGCTGGAGGCGCTACGCAGACAGTCTGTGCTCTAGCAGCAAGGCAGTA
ACACCACAAAAGCAAAACCACATGGGAAAACCTCAGCACTGGTGGTGGTGGCAGTGGACAGATCAAGGCACCTCAA
CTCATTGGAATAATGTGAACACTGATGACATGGTATAGGAGTGGGTGGGGTGTGAGCCACCCATCAGACCTCT
TTAGCTGTGCAAGATAAAAGCAGCCTGGGTCACCCAGGCCACAAGGCCATGGTTAATTCTTAAGGCAAGGCAAAT
CCATGGATGAGAAGTGCAATGGGCATAGTAAAAGTGCATGAATTT

1178/6881
FIGURE 1098

MQRLOVVLGHLRGPADSGWMPQAAPCLSGAPQASAADV VVVHGRRTAICRAGRGGFKDTPDELLSAVMTAVLKD
VNLRPEQLGDICVGNVLQPGAGAIMARIAQFLSDIPETVPLSTVNRQCSSGLQAVASIAGGIRNGSYDIGMACGV
ESMSLADRGNPGNITSRLMEKEKARDCLIPMGITSENV AERFGISREKQDTFALASQQKAARAQSKGCFQAEIVP
VTTTVHDDKGTKRSITVTQDEGIRPSTTMEGLAKLKP AFKKDGSTTAGNSSQVSDGAAAILLARRSKAEELGLPI
LGVLRSYAVVGVPDIMGIGPAYAIPVALQKAGLTVSDVDIFEINEAFASQAAYCVEKLRLPPEKVNPLGGAVAL
GHPLGCTGARQVITLLNELKRRGKRAYGVVSMCIGTGMGAAAVFEYPGN

1179/6881
FIGURE 1099

GTTCCTCCGGGAGCCCAACACCGTTCCCGCGCGGCCACGATGATCCCTCCGAGCAGCCCCCGCGAGGACGGCGTG
GACGGGCTGCCAAGGAGGCGGTGGGCGCCGAGCAACCGCCCTCTCCTGCATCCACCAGCAGCCAGGAATCCAAG
CTCCAGAACTAAAACGATCACTTTCTTTCAAGACCAAGAGTTTACGGAGCAAAAGTGCTGACAACCTTCTCCAG
CGAACCAACAGCGAAGACATGAACTGCAAGCACACATGGTGGCTGAGATCAGCCCCAGCTCCAGCCCCTCCCT
GCTCCAGGAAGCCTGACGTCCACACCCGCCAGGGCTGGTCTGCATCCAGGTGGCAAGGCTCATGCCTTTCAGGAA
TACATCTTCAAGAAGCCCCTTTCTGTGATGTCTGCAACCACATGATAGTGGGAACAAATGCTAAGCATGGACTG
CGCTGCAAAGCCTGTAAGATGAGCATCCACCACAAGTGCACAGATGGCCTGGCACCCAGCGGTGCATGGGCAAG
CTGCCAAAGGGGTTTCGGCGTTACTACAGCTCCCCCTTGCTCATTTCATGAACAGTTTGGCTGCATTAAAGAAGTT
ATGCCCATTGCCTGTGGCAATAAGGTGGACCCTGTCTACGAGACCCTCCGCTTCGGCACCTCCCTGGCCCAGAGG
ACAAAGAAGGGCAGCTCCGGCAGTGGCTCTGACTCACCTCACAGAACCCTTACTTCAGATCTTGTGGAGGTTCTCT
GAGGAAGCCAATGGGCCAGGAGGCGGTATGACCTAAGGAAACGCAGCAACAGCGTGTTCATATCCAGAAAAT
GGCACTGATGATTTCAGAGATCCAGCGAAGAACATAAACACCAGGGATCTCTTTCCAAAGACCCATTACAGATG
AACACCTATGTTGCCTTGTACAAATTTGTACCACAGGAGAATGAAGATTTGGAAATGAGGCCAGGAGACATAATT
ACTCTTTTAGAGGATTCCAATGAAGACTGGTGGAAAGGGAAAATTCAAGACAGAATTGGCTTCTTTCCAGCCAAC
TTTGTTTCAGAGACTACAACAAATGAGAAGATTTTATAGTGTGTTAGAACCTTCATTGGGTGTAAGGAACAGGGG
CAGATAACACTGAAAGAGAATCAGATCTGCGTGAGTTCTGAAGAAGAACAAAGATGGTTTTATCAGAGTCTCAGT
GGAAAAAAGAAAGGCCTCATCCCCCTTGATGTACTAGAAAACATCTGATTGCTGGCTCCTCCTCCGTTTGCAGTA
GGCAAGCTCTGCTGCGATGCCTCTGCCTCATCTCACACTGCGTCAACCCAAAGGAGCTGCCGCACTGACCCAGCC
CCCCAGGAAACAGTGAGACAAGAATCAAGTATCTGAGACTGTGGAGTAATAGCCACAAAACAGAGGGCCCACTGC
ACAGCATATCCAGGCTGCCACAGGTGGGACGAGGCTGAGAGAGTCAGCAGGCAGAGCCAGATGCCATGCTTGGC
AGCAGCAGTAGGACTATAAACCACAGCTGTCCCCCAGGATCCCCTCCTTCTCTGTCTGTGTGGTGTAAGTTAAC
ACACTGGAGTGTGCTCCAGTTTGCAGGGTAGCCAGTGCAGGTTTCAGATCCATGTAGCTAAGTATTATCTCTGCT
TCCAGACCTATGTCAACAGTACCAATCAGTCAGTGTCTCATCATTTTCAGGCCCAAGCAATCTCTGTGCAAAGCA
TCAGAAAGACCTGCTTCCCAGCCCCCAGCATTCCAGTGTCTTCCAGGCTCCTCTCTTTGTGATTGTGCTGTCCA
GAGTGTCCAGCTTGTCTTTCTTTCTTCTCAGTCTCTGAGTACATCTGGTGGTGTGCATTAGATGTGAGGGCTA
TGTTGACATGGCATCACCTCCAAAGACCTGACCTGCCCTAAAGACTGATGACAGGCCATCCTTCTGCTGTCTTAG
GTACTGGCCTGGGTGACAGAGCAGGACATGAGACATAGATACAGTGGGAGGAGAAGTGGGGAAAGGTGGAGCAG
AGAGTTCTTACTTATTGAAGATTATACAGCCCTTTCGGTTATGAAGTCCCTGCTTGAAGGCAATGGACCTGGGGA
AGAGACTATCACAAAAGTCTCCATTTTCATTTTACATCCTCTCTATTGGAGGCAGCACITTTCCCTCATGCTGT
CCTATAGGACTCCACTTTGAAGGTTGTGCCTACGTTGCAGGGAACATAGGAACATGGAGGGGAACCAACAACAGCA
TCTTAGAAGAAATGTAGCCAAATTGGAGTCCATTCTTCTTTAGGGCAGTATATGAAATCCTAGCAGATGTAAAT
GGAAAAGAATCCTAATGCTTCTTCTTTCAGAAAGTAGAGGAACATAGGGGCCCAATTAGCATCATCTAGGGGAATC
TCTATTACTCTGTACTTATACTAATGTTTACAAGAATGCAATATATACTGTGATGCCTTCTTACTCAAGCCTCCTAG
CATTCAAACTTCCATCCTATTAGTCATTAAACGTGGTTAACTTCAATTACAATCACCTTGGAAATCAATGTCAGT
TTGATTTATTTTGTACAGAGCAATAAAATCATTAGAACAATGGTTTTTAAAGACTTAAGTGGATGCATCCTAT
GCATGTAAGCATTATTTCCCAAACCAAGCATCATTATCTCCATTTATTTCTTTTGTTCGGCTCAGTGTGAAG
TTGGGAACAGAGGGGATGGCTGCTGGTTTCACAGAAGTTTGGATGCCTTACTCTTATCTTAAAGCCAGCATCC
AGAATTTCCCTCCTCTCTGATGCCACATGCAAACAGGTGTACGATGTCAAGATGGATTCTTTGAGAGCCAGGG
TAGATCATATGACTGCCCTTCTGTAAAATTGGATGCCTAGTACAAATGCTCTTTGCCTCTAATTCAGTATTCCAT
TTAATAAAAAACAATACAGTGGCTGGAAAGGAGCATCAG

1180/6881
FIGURE 1100

MIPPSSPREDGVDGLPKEAVGAEQPPSPASTSSQESKLQKLKRSLSFKTKSLRSKSADNFFQRTNSEDMKLQAHM
VAEISPSSSPLPAPGSLTSTPARAGLHPGGKAHAFQEYIFKKPTFCDCVNHMIVGTNAKHGLRCKACKMSIHHKC
TDGLAPQRCMGKLPKGFRYYSSPLLIHEQFGCIKEVMPACGNKVDPVYETLRFGTSLAQRTKKGSSGSGSDSP
HRTSTSDLVEVP EEANGPGGGYDLRKRSNSVFTYPENGTD DFRDPAKNINHQGSLSKDPLQMNTYVALYKFVPQE
NEDLEMRPGDIITLLED SNEDWWKGKIQDRIGFFPANFVQRLQQNEKIFRCVRTFIGCKEQGQITLKENQICVSS
EEEQDGFIRVLSGKKKGLIPLDVLENI

1181/6881
FIGURE 1101

GCCGCGGGCTTCGTTTGTGAGGAAGGGGGCCTAGGCCCGGGCCTGCGGTGGTGGGGGTGCTGCGCGCCGGGGGT
CGCTCCTGCTGTGTCTTCCGCTCCAGCTTCGCCCACTTCCCCTTGCCAGCGGGGTGGGCGGGAGAAGACCTGCC
GGAGCCATGGAGGACGAAGTGGTCCGCTTTGCCAAGAAGATGGACAAGATGGTGCAGAAGAAGAAGCGGGCTGGA
GCATTGGATTTGCTAAAGGAGCTTAAGAATATTCCTATGACCCTGGAATTACTGCAGTCCACAAGAATCGGAATG
TCAGTTAATGCTATTCGCAAGCAGAGTACAGATGAGGAAGTTACATCTTTGGCAAAGTCTCTCATCAAATCCTGG
AAAAAATTATTAGATGGGCCATCAACTGAGAAAGACCTTGACGAAAAGAAGAAAGAACCTGCAATTACATCGCAG
AACAGCCCTGAGGCAAGAGAAGAAAGTACTTCCAGCGGCAATGTAAGCAACAGAAAGGATGAGACAAATGCTCGA
GATACTTATGTTTCATCCTTTTCTCGGGCACCAAGCACTTCTGATTCTGTGCAGTTGAAGTGTAGGGAGATGCTT
GCTGCAGCTCTTCGAACAGGGGATGACTACATTGCAATTGGAGCTGATGAGGAAGAATTAGGATCTCAAATTGAA
GAAGCTATATATCAAGAAATAAGGAATACAGACATGAAATACAAAATAGAGTACGAAGTAGGATATCAAATCTT
AAAGATGCAAAAATCCAAATTTAAGGAAAAATGTCCTCTGTGGGAATATTCCTCCTGACTTATTTGCTAGAATG
ACAGCAGAGGAAATGGCTAGTGATGAGCTGAAAGAGATGTGGAAAACTTGACCAAAGAAGCCATCAGAGAGCAT
CAGATGGCCAAGACTGGTGGGACCCAGACTGACTTGTTCACATGTGGCAAATGTAAAAAGAAGAATTGCACTTAC
ACACAGGTACAAACCCGTAGTGCTGATGAACCAAGTGACAACATTTGTTGTCTGTAATGAATGTGGAAATCGATGG
AAGTTCTGTTGAGTTGGAAGAATTGGCAAAATATCTGGACCATTAAGAAAACGGATTTTGTAACTAGCTTTAAAC
TAGGCCAAGCAACTAGTTTTCTGCAAATCAAATTTTAAAGCAACTTGAGTTAGACTTTGTTTTGACCTAACA
TCCCTTCCTTAAATGCCTTCTGTAGTTTCAGATCAGTAGGGAGACCATATAAATAATTGTATGGTACCTGTTTCAA
AACATATTTTTTCTGTTTTTATAAGTAAGTTGATATTAATTAACTCTTGCCAATATTTCTTCTTTCTTAAAGGA
AAATACACCTTAACTTTTTTTCTTTTACACTGTGAAACATACACAGTAGAAATCTGTTACTCTCTGTTATTAAT
ACATAAATGAAAATACTTTTTTTTCCATATTGGCATGTAGCTACAAATATTAAAGGAGGAGAAAAGGTAATATAA
TTTTAGGTTTACCAAATATGGTGTGTATTCAAATAATACTTGACCAGCTTATCTAAAATGTACATAATTTTGAGG
TAGCTTATGAATTTGATTTTAATTATTATGTTCAAGCTTGAATATTAGATATTATTTTGCATCTGTAACATAA
CCGTGATCATCATCTCTGTAATTTCTTGATCATGATATTACTTGTCTTAATAGATTTTGGAAACAAGACTT
TATTGAGATCAGTTTGGTTTTCTGTTAATTTACCTGTTTGACTTTATAATGTGTTTTAGTTTTGCAGAAGAACA
CTGTTGTAGTTTAGAAGGCTTTTCATAAATCCCTCATAGGCAAAGATGAGAACTTCCCCTATTTTTTTCCCCT
CTTAGGAAGACATACTGGAAAGAAAATGTTTAGCATCTTAGTGTAGTATAGCTATTGTAAACAGTTTCATGACTAG
ATTTTGATTGGAAATCTATACTGACCAAGGATTAATCTTAAGGACTGTATAATTCATTAAAGCGGTGGTCTTTC
CATGTGGAGACTGATAGAAAATAATTTGTCCCAAGTCTTATTGCTGACTTTTCTGTCAATGAGTGAGATTGT
TGAACAACTGAATATATGGGCTATAGCAAGTAGCTTTACAGTACAGATCTTACAATTAAGTTTTGCTTTTGTTA
AAGTGTGTACCAATTTTTCTGTTTGGAGTAAGACAAAATTTGTTTGACATAGGTTCCCTAGGTACACTTGCTC
TAGCATACTTTAAAGGCCACTGTTGCAAAGTCTACATTTTATGCTGAATCTGCATTCTGTGACGCCCGGTAGAA
AGACCTCAGTACATGCTTTGCACTCTCCTTTGCTCCCTTTTCCAATTTCTTATTGCATATCATTTTGTGTGAAT
ACAGAAAGCAGCATTTTAAATGTCCATGTTAAGAATTGGCCCACTGGTACCGACTCACCTCTATTTTGTGAGTT
CATAGTTGAAGATTTTGTTTTATTTCAAAAACAAAGTACATTTTGAAATAATGTTTCAGAATAAAAATAATCTCA
CTTTTAAATTAAGTGATCCATTTTAAATTTGTAATTCATAAAGTTTTTTTTGTGTTAAACAT

1182/6881
FIGURE 1102

MEDEVVRFakkMDKMVQKKNAAGALDLLKELKNIPMTLELLQSTRIGMSVNAIRKQSTDEEVTSLAKSLIKSWKK
LLDGPSTEKDLDEKKKEPAITSONSPEAREESTSSGNVSNRKDETNRDITYVSSFPRAPSTSDSVQLKCREMLAA
ALRTGDDYIAIGADEEELGSQIEEAIYQEIRNTDMKYKNRVRSRISNLKDAKNPNLRKNVLCGNIPDLFARMTA
EEMASDELKEMWKNLTKEAIREHQMAKTGGTQTDLFTCGKCKKKNCTYTQVQTRSADEPVTTFVVCNECGNRWKF
C

1183/6881
FIGURE 1103

AGGTCCACCGCTCCTACCAGCAGCCTGACCCAGGATGGCTCTACTCCCCAGCCTTCAATCCCTGGACCTGGGTT
TGGAATTAGGAGACTTCCGTCGAGGGTCAATTGTGCGGGATCCTGGCCATTCATACAAAAATCTCAGACTGGCA
AAAGAGAGGGGGACCCCTCGAGCAGAGGTCAGATATCACAAGGGACCCGGTTTTTCCACCCCGCCCTCATTCCC
AGCGTGGGGTCTCAGATGAGTGGGAAAACCTCAAATATGGATCAGAAATCATGCAAGTTCGGACTCTGGCCTTAG
GAGAAAACCTCTTAAACGGAGATGGAATGTCACGAGGGATCCAGCCACCCCATCCACTCATTGACTGGATGAAGTT
TTGCGATGGGAAAATCCAGGTCAGGAGTTACGGACGACCTGCACCGCCCGGAGCTCCTTCTGGGTCCGGAGTTTG
GGAAAAGTGGGGTTAGGGGTTAAAGGTCACGGAAGAACTTCCCCACTCCCCCGCCTCTTTCGTCCGCGGGCCG
GTTCAAGAGGTATTCCGAACAGGGGAGGAGAGCGGGCGCCATCGTACCTGAGCAGGAGCCAGCGCCTGCTGGAG
CTGCTGCTGCTCCTCGCTGATCTTTTGCTTCAGTTTTCTGAACATGGCGCAGCGTACGTACGGTCTGAGTGTCA
ACGAAAACCTGAAGGGCGAGAGCCCGGGAGTCCCGGCCGACGGCTACGGCGACTTCTTTACACCAGGGACAGC
GGGGGCCGGGCTCGCCGTCTCCTCCTTGAGGCTGTGGGCAAGTCCGGACACTCGTCTGAGGGTGTCCGGCTCG
CCGCCGCCGCTCTCTTCTTCCGGGTGCCACTGGCTGGCCTCGGCCCCCATCCAGCCCCGGGAGCCGCGCGCG
CGACGACAACGGCAGCAGGTGAACTGTGCGCCAAGGGCGCTTGCGCGGCTACGTGGAGCTCACAGAGGCTAACT
ACGGAGCACCGGATGGGACAAGCACAATGTCGGGTCCCGCATGCGCGCTCGGCCGGTTCGCTTCCGAACCTCGCT
GCACTGGAGGACGCAAGGTTCCGTCCTGCCTGATTTTCGTGCGTGCGGAGACCGCCGTCCGCGCTCAGAACC
GCGTGGGCTAGTCTGAACACTACCCTGACTCTCACCTGGGCTTTGGCCCTGCGAAATCAGACGGGGAGAGTGTG
CTTCTATCGATGGCAGCAGGGCCGACGGGCCACCGCAAAGAACACAGGGATGAGCGTCAAGGATGGGAGAAGGG
GAGATCCAGAGAACCTGACGCGGGCCCTAATTGATAGTGTTCTTTTCTTTAGTAGCTGTAGCTAGGATTCTGTGT
CTTCGGTGCCAGAGGGGCCGCTTCCCTTCCCTGAACTCTTCCAGCGTCGGGAAGTCCCTGATACCAGGCGCCAG
GGGTCCAAATGTTTTATGCCAATACTGTAAACCTCAAGTGTTTGGACACCTGCTTTATTCTTTCTTACC
ATCGTGTATTTACGAATTCATTCAAAAACCTTTATCAGGCCTTGGAGATGTTAAAAGAATTTACAGCCTAGTGG
AAGACACAGATTCCTAATTAGTCCAAATTTACTCCTAACACCTGCAATCATCCTACAAGATCTTAATGTTTATGT
GCCTCATTATCTAAAACCTGAACTTTGGCTGCCTGTGAATCCTCAGGTCCATTTCAGCAACCCACTTTTGCAT
GCTGTACCTTTGATATCATCTGAAACTGCTTACATTGTCTCCGGTATCAGAATCTAACAGTATATGCTGATCTCC
ACGTTCTAGCAAATTTTGTTTACCAGCAATAATAGGAGCAACCTGCTCTCGAGAGTCCATATTCTGATCCCTAAA
TGTATTAGAGCCACAGTGGGGCTGGAACACTGCCTTAACACCTGGGCTAAGTCTCTTATATCTCGTAGTGAAC
ACCTTATGTATGTAAGGTGTCCCCAGCCCCGGGCCACAAACGGGTACCAGCCCATGGCCTGTTAGGAACCGGGC
TACACAGCAAGAAGTGAATCTCTGGCAAGCCAGGGAAGCTTAATCTGTATTTACAGCTGCTCCCATGGTTTACA
TTATCGTCTGAGCTCCACCTCCTGTCTAGATCAGCTGTGGCATGAGATTCTCATAGGAGCTGGAACACTGTGAAC
TAGGCATGAGAGGGATCTAGGTTATGCTCCTTATGAGAATCTAATGCCTGATGATCTGTCACTGTCTCCCATCAC
CCCCAGATGGGACCATCTAGTTGCGAGGAAAATAAGCTCAGGGCTCCACCGATTCTACATTATGGTGAGTTGTGT
AATTGTTTCATTATATATTACAATGCAATAATAAGGACATAAAGGGCACAATAAATAT

1184/6881

FIGURE 1104

MALLPSLQSLDLGLELGDFRRGSIVRDPGHSIQNLTCKREGDPSSRGQISQGTRVFPPRPHSQRGVSEWENLK
YGSEIMQVRTLALGENS

1185/6881
FIGURE 1105

CTCTTCCGGTTCTAGGTGCTTCGGGAGCCGCGGCTTAAGGTGTAGACATGGCGAAGTCCAAGAACCACACCACAC
ACAACCAGTCCCGAAAATGGCACAGAAATGGTATCAAGAAACCCCGATCACAAGATACGAATCTCTTAAGGGGG
TGGACCCCAAGTTCCTGAGGAACATGCACTTTGCCAAGAAGCACACAAGAAGGGCCTAAAGAAGATGCAGGCCA
ACAATGCCAAGGCCATGAGTGACGTCGCGAGGCTATCAAGGCCCTCGTAAAGCCCAAGGAGGTAAAGCCCAAGA
TCCCAAAGGGTGTGTCAGCCGCAAGCTCGATCGACTTGCCTACATTGCCCATCCCAAGCTTGGGAAGCGTGCTCGTG
CCCGTATTGCCAAGGGGGCTCAGGCTGTGCCGGCCAAAGGCCAAGGCCAAGGATCAAACCAAGGCCCAGGCTGCAG
CTCCACCTTCAGTTCCAGCTCAGGCTCCCAAAGGTGCCCAGGCCCTACAAAGGCTTCAGAGTAGATATCTCTGC
CAACATGAGGACAGAAGGACTGGTGTGACCCCTACCCCGCCCTGGGCTACCATCTGCATGGGGCTGGTCCTC
CTGTGCTATTTGTACAAATAAACCTGAGGCAGG

1186/6881

FIGURE 1106

ATTGCCACATGGTCCACATTGCATGCAAGATTGCTGAGCTGAAGGAAAAGATTGATTGCCGTTCTGGTAAAAAGC
CAGAAGATTGCCCTAAATTCTTGAAGTCTGATGATGCTGCCATCATTGACATGGTTCCTGGCAAGCCCATGTGTG
TTGAGAGCTTCTCAGAACTGTTTGTTCATTGGCCATTAAAGTTTAGTAGTAAAAGACTGGTTAATGATAACAA
TGCATCATAAAACCTTCAGATGGAAAGGAGAATGTTTTGTGGACCACTTGGTTTTCTTTTTGCATCTGGCAGT
TTTAAGTTATTAGTTTTTAAATCAGTACTTTTTAATGGAA

1187/6881
FIGURE 1107

MVHIACKIAELKEKIDCRSGKKPEDCPKFLKSDDAAIIDMVPKPMCVESFSELFVSIGHLSLVVKDWLMITMHH
KTRWKGEFCFVDHFGFLFCIWQF

1188/6881
FIGURE 1108

TGCCTGTCTTTTCCGTGCTACCTGCAGAGGGGTCCATACGGCGTTGTTCTGGATTCCCGTCGTAACCTTAAAGGGA
AACTTTCACAATGTCCGGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGG
AACCACCTTAGGTGGCACCAATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTA
TATCATAAATCTCAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTCGTGCAATTGTTGCCATTGAAAACCTGC
TGATGTCAGTGTTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCAC
TCCAATTGCTGGCCGCTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGCCTTCCGGGAGCCACGGCTTCT
TGTGGTTACTGACCCCAGGGCTGACCACCAGCCTCTCACGGAGGCATCTTATGTTAACCTACCTACCATTGCGCT
GTGTAACACAGATTCTCCTCTGCGCTATGTGGACATTGCCATCCCATGCAACAACAAGGGAGCTCACTCAGTGGG
TTTAAATGTGGTGGATGCTGGCTCGGGAAGTTCTGCGCATGCGTGGCACCATTCCCGTGAACACCCATGGGAGGT
CATGCCTGATCTGTACTTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAGAAGGCAGT
GACCAAGGAGGAATTTACAGGTGAATGGACTGCTCCCGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGA
CTGGTCTGAAGGTGTACAGGTGCCCTCTGTGCCTATTACAGCAATTCCTACTGAAGACTGGAGCGCTCAGCCTGC
CACGGAAGACTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGACTGGTCTTAAGC
TGTTCTTGCATAGGCTCTTAAGCAGCATGGAAAAATGTTGATGGAAAATAACATCAGTTTCT

1189/6881
FIGURE 1109

MSGALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLAARAIVAIENPADVS
VISSRNTGQRAVLKFAAATGATPIAGRFTPGTFTNQIQAAREPRLLVVTDPRADHQPLTEASYVNLPTIALCNT
DSPLRYVDIAIPCNNKGAHSVGLMWWMLAREVLRMRGTISREHPWEVMPDLYFYRDPEEIEKEEQAAAEKAVTKE
EFQGEWTAPAPEFTATQPEVADWSEGVQVPSVPIQQFPTEDWSAQPATEDWSAAPTAAQATEWVGATTDWS

FIGURE 1110

[illegible]

1191/6881
FIGURE 1111

MVFRRFVEVGRVAYVSFGPHAGKLVAIVDVIDQNRALVDGPCTQVRRQAMPFKCMLTDFILKFPNSAHQKYVRQ
AWQKADINTKWAATRWAKKIEARERKAKMTDFDRFKVMKAKMRNRIKNEVKKLQKAALLKASPKKAPGKGTGTA
AAAAAAAAAAKVPAAKITAASKKAPAQKVPKATGQKAAPAPKAQKGQKAPAQKAPKASGKKA

1192/6881
FIGURE 1112

GACTCCTAGGGGCTTGCAGACTAGTGGGAGAGAAAGAACATCGCAGCAGCCAGGCAGAACCAGGACAGGTGAGGT
GCAGGCTGGCTTTCTCTCTCGCAGCGCGGTGTGGAGTCTGTCTGCCTCAGGGCTTTTCGGAGCCTGGATCCTCA
AGGAACAAGTAGACCTGGCCGCGGGAGTGGGGAGGGAAGGGGTGTCTATTGGGCAACAGGGCGGGGCAAAGCCC
TGAATAAAGGGGCGCAGGGCAGGCGCAAGTGGCAGAGCCTTCGTTTGCCAAGTCGCCTCCAGACCGCAGACATGA
AACTTGTCTTCTCGTCTGTCTGTCTCGGGGCCCTCGGACTGTGTCTGGCTGGCCGTAGGAGGAGTGTTCAGT
GGTGCGCCGTATCCCAACCCGAGGCCACAAAATGCTTCCAATGGCAAAGGAATATGAGAAAAGTGCCTGGCCCTC
CTGTCTAGCTGCATAAAGAGAGACTCCCCATCCAGTGTATCCAGGCCATTGCGGAAAACAGGGCCGATGCTGTGA
CCCTTGATGGTGGTTTCATATACGAGGCAGGCCTGGCCCCCTACAACTGCGACCTGTAGCGGCGGAAGTCTACG
GGACCGAAAGACAGCCACGAACCTCACTATTATGCCGTGGCTGTGGTGAAGAAGGGCGGCAGCTTTCAGCTGAACG
AACTGCAAGGTCTGAAGTCTGCCACACAGGCCTTCGCAGGACCGCTGGATGGAATGTCCCTATAGGGACACTTC
GTCCATTCTTGAATTGGACGGGTCCACCTGAGCCCATTGAGGCAGCTGTGGCCAGGTTCTTCTCAGCCAGCTGTG
TTCCCGGTGCAGATAAAGGACAGTTCGCCAACCTGTGTGCGCTGTGTGCGGGGACAGGGGAAAAACAAATGTGCC
TCTCTCCAGGAACCGTACTTTCAGCTACTCTGGTGCCTTCAAGTGTCTGAGAGACGGGGCTGGAGACGTGGCTT
TTATCAGAGAGAGCACAGTGTGTTGAGGACCTGTGACAGGAGGCTGAAAGGGACGAGTATGAGTTACTCTGCCAG
ACAACACTCGGAAGCCAGTGGACAAGTTCAAAGACTGCCATCTGGCCCGGGTCCCTTCTCATGCCGTGTGGCAC
GAAGTGTGAATGGCAAGGAGGATGCCATCTGGAATCTTCTCCGCCAGGCACAGGAAAAGTTTGAAAGGACAAGT
CACCAGAAATCCAGCTCTTTGGCTCCCCTAGTGGGCAGAAAGATCTGCTGTTCAAGGACTCTGCCATTGGGTTTT
CGAGGGTGCCCCGAGGATAGATTCTGGGCTGTACCTTGGCTCCGGCTACTTCACTGCCATCCAGAACTTGAGGA
AAAGTGAGGAGGAAGTGGCTGCCCCGCGTGCAGCGGTGCTGTGGTGTGCGGTGGGCGAGCAGGAGCTGCGCAAGT
GTAACCAAGTGGAGTGGCTTGAGCGAAGGCAGCGTGACCTGTCTCGGCCTCCACCACAGAGGACTGCATCGCCC
TGGTGTCTGAAAGGAGAAGCTGATGCCATGAGTTTGGATGGAGGATATGTGTACACTGCAGGCAAAATGTGGTTTGG
TGCCGTGTCTGGCAGAGAACTACAAATCCCAACAAAGCAGTGACCCTGATCCTAACTGTGTGGATAGACCTGTGG
AAGGATATCTTGCTGTGGCGGTGGTTAGGAGATCAGACACTAGCCTTACCTGGAACTCTGTGAAAGGCAAGAAGT
CCTGCCACACCGCGTGGACAGGACTGCAGGCTGGAATATCCCCATGGGCCTGCTCTTCAACCAGACGGGCTCCT
GCAAATTTGATGAATATTTTCAGTCAAAGCTGTGCCCCGGGTCTGACCCGAGATCTAATCTCTGTGCTCTGTGTA
TTGGCGACGAGCAGGGTGAGAATAAGTGCCTGCCAACAGCAACGAGAGATACTACGGCTACACTGGGGCTTTCC
GGTGCTGGCTGAGAATGCTGGAGACGTTGCATTTGTGAAAGATGTCACTGTCTTGCAAGAACTGATGGAAATA
ACAATGACGCATGGGCTAAGGATTTGAAGCTGGCAGACTTTGCGCTGCTGTGCCTCGATGGCAAACGGAAGCCTG
TGACTGAGGCTAGAAGCTGCCATCTTGCCATGGCCCCGAATCATGCCGTGGTGTCTCGGATGGATAAGGTGGAAC
GCCTGAAACAGGTGTTGCTCCACCAACAGGCTAAATTTGGGAGAAATGGATCTGACTGCCCGGACAAGTTTTGCT
TATTCAGTCTGAAACCAAAAACCTTCTGTTCAATGACAACACTGAGTGTCTGGCCAGACTCCATGGCAAAAACAA
CATATGAAAAATATTTGGGACCACAGTATGTCGAGGCATTACTAATCTGAAAAAGTGCTCAACCTCCCCCTCC
TGGAAGCCTGTGAATTCCTCAGGAAGTAAACCGAAGAAGATGGCCCAGCTCCCCAAGAAAGCCTCAGCCATTCA
CTGCCCCCAGCTCTTCTCCCCAGGTGTGTTGGGGCCTTGGCCTCCCCCTGCTGAAGGTGGGGATTGCCCATCCATC
TGCTTACAATTCCTGCTGTGCTCTTAGCAAGAAGTAAATGAGAAATTTTGTGATATTC

1193/6881
FIGURE 1113

GCTTCTAAACAACCTACCCTCCTTCCCCATTTTCTGTGGTCCAACTACCCTCGGCGATCCCAGGCTTGGCGGGGC
ACCGCCTGGCCTCTCCCGTTTCCTTTAGGCTGCCGCCGCTGCCTGCCGCC**ATGG**CAGAGTTGGGCCTAAATGAGCA
CCATCAAAATGAAGTTATTAATTATATGCGTTTTGCTCGTTCAAAGAGAGGCTTGAGACTCAAAACTGTAGATTC
CTGCTTCCAAGACCTCAAGGAGAGCAGGCTGGTGGAGGACACCTTCACCATAGATGAAGTCTCTGAAGTCCTCAA
TGGATTACAAGCTGTGGTTCATAGTGAGGTGGAATCTGAGCTCATCAACACTGCCTATACCAATGTGTTACTTCT
GCGACAGCTGTTTGCACAAGCTGAGAAGTGGTATCTTAAGCTACAGACAGACATCTCTGAAGTGAAGAACCGAGA
ATTATTAGAACAAGTTGCAGAATTTGAAAAAGCAGAGATTACATCTTCAAACAAAAGCCCATCTTAGATGTCAC
AAAGCCAAAACCTTGTCCACTTAATGAAGGTGGAACAGCAGAACTCCTAAACAAGGAAATTTTAAGACTTCAAGA
AGAGAATGAGAAATTGAAGTCAAGGTGAAGACCATTGAAATACAGGCTACAAATGCACTGGATGAAAAGTCAAA
ACTAGAAAAGCACTGCAAGATTTACAGCTTGATCAAGGAAATCAAAGGATTTTATAAAGGCCCAAGACTTAAG
TAACTTAGAAAACACTGTGCTGCCTTAAAGAGTGAGTTTCAAGACACTTAATGACAAGACAGAAAACAGAA
GTCACTGGAGGAGAACTCTGGCGACAGCCAAGCAGATCTACTCAGGGTTCAGGAGCAGCTGCACATGGCTGAAAA
GGAATTAGAAAAGAAATTTAGCAAAACAGCAGCTTATCGAAACATGAAAGAGATTCTTACCAAGAAGAATGACCA
AATCAAAGATCTGAGGAAAAGACTGGCACAATATGAACCTGAAGAT**TAAA**ACTGAAGATTTCTCTGGAAGCTAC
CACATGCAAACATAACAAGCAGTCTCACCTCAGGCATGTATTTTGAAGACATTTTGTATATCCCCCTCTCCTTAT
TTTTCTAATATTTAGACTTTGAATATTTAGAACTAGAGTTCTATTTTTCAGCTAGTTGAAAACAGAGAAAACCTA
GTGATTCTGTCTGGTCATCCACACACCTCTCTACTGAGTGCTCCAGAGTCTTAGCTCACATGCACTGAGAATTC
TTTACAGCAAAGAAGAGATTTTLAGAGTGGGAAGAAGAGGCTTATCCTTCTGCATTAGTATAAAGAGTCTGTATT
TTTAATAAATGTTAAATAAGCTAACAATGTTTGTACTTATGCATTCCCCATGGGTAAAAATAAATAATAGCATTG
TTAAAGATAGTTATTACCAAAAAAGAGAGTTATTACAAATAAATATGTCCTTTATTTTTAAAAATGAAATCTT
AATTCATTTACTCTATTTGATGATAAACTATAAATTCATTGAAAATGTGAATTCATTATGGGTAGCCTTTTTAC
CAATTATAAGGAAAATTTACAGCAGTGAACATGAACATTCAGTTAGCTTCCTCAGTCTCTCCATCTTAAAGATCA
TTTATCAGAGGAGGTTTACAGATTTTTTGCAGCATAACTTTTCATGAGTCTGTATTACTAATGGATAAGTCAAATC
CATCCTGCACTTCTACAGTTTAGAAAGTATCTGGACTCAGAATAAATGTAATATTTATACTTGTTCAGAAATGT
TATTTTACATTTTATGTTCAATAAGAACACTTTTTAAAGACGTATATTCAACATAAAATCAGCTATCAGACTTC
AGATTAGACTTTATTTATGTGGGTCTATAAATTTGATTTTCAAGAGGTTTTCACTATATTTGTATTGGCCTGG
TTTTCTCAGACGATTTTGGACAAATCATTAGAACTGGGCATCATATCCACAGTTATGTAAGGCAGTGATATACT
ATAAGGATAAAACAAAGTCAAGTCCATAAAGCAATAATCCCTCAGAAGGAAAGTCCCTTACTTTTACATATTAATA
TTTAGTAATTTTTCTGCTTCTAAAAGTGAGAGTATCACACCCTAAATGAACACTGTCTACTAAGAGACATCATT
CCATTTCCACAAATGAAGATTTTATTTCAAGAAACGAGTTTACTGATTGGAGCATAGGGCTTGTGTTATTTTTTA
TTCAAGCTTTTAGTAATAGCCTTGAATTTATTATTTTCTATAGGCTTTTGTAAATAGTGAAGGAACAAAT
GTTAAAGGGTAAGATAATTTCCCTGCAAAAGGACACAGAAGGCAGTCTTAAGAAGATGAATGGATGAGAGAAGGG
AGAGAATAAAATGCAATAACGAGCCAGCATTACTATGTATTTTCTCCTCACCTGTCTCTCCATATTTAGGTCAC
TTACCAGTTTCTGTGCCCTTTTGGAGCTTTTGTGGAGGCTTCATTCTCACCTGTATTTCTTTAGCCCTAAAT
GACACTCTCTCCAAAATCCATTCCATTGTCTGTGGACCAAGATGTTCTATGTAATTCAGAAGCAGAACTCTTGG
CTAAAGGGCTAGTGTGGCCTTCAGAAACCATTCAATTATTTTCTCCCTACACCTTTGTGAGTTTGAAACCAGTGA
GGAAAAAAGGTATGTTGATAAGAAACCTATATTGCTAGGTAGAATTTGTACTTGTTTTCTTGGTAGCAGTTTTGA
AATATTCTGTACAGTACGTTCCATTGTTTAAATAATAAATTCAAAAATATTTCTAAAACCTTAAAAACCACTATG
CCAAGCATTAAAGATAAACAATATGATGTTCTTTGACGTAAATCAACGTGATGATTCTTTCACATGTAAACACAT
TTAGTGTCTTCTGGTTTGTCAATTTTGTGTTGTTGTTGTTGTTGTTGTTTACTCTATACCTTTAGCAAAATAC
AGTTTTAAATTTTTATTGTTTTTAGTAGTTTCCCAACTTTAAGACTTATCTAATTTAACTGAGAAAGAAAGCCTT
TTTCATATATATATATATTGGATTTCTAAGGATGGTGGTTTGGAGCCTTGATTAGACTTTTGTGTGCTAAGCCAG
ACAGGCAGTCTGTACATTGATGGCCATCACAATGCAGCTTTGGTTTAATTTAATTCAGGCCTGCTGCTGAGTTAT
GCACAGACTTTTTGTTGACCAAAATAAATAATAAAGGTTTTCTTCTGTTTGACATTTGTGTTCAATTTTCTCT
TTATGTATTACATTTAACCTATATTAAATAAATGTTTAAATGATAATTTGCTTATGTCTTATAAAACTCAGCAT
AAGAAAAAT

1194/6881
FIGURE 1114

MAELGLNEHHQNEVINYMRFARSKRGLRLKTVDSQDLKESRLVEDTFTIDEVSEVLNGLQAVVHSEVESELIN
TAYTNVLLLRQLFAQAEKWYLKLQTDISELENRELLEQVAEFKAEITSSNKKPILDVTKPKLAPLNEGGAELL
NKEILRLQEENEKLSRLKTIEIQATNALDEKSKLEKALQDLQDQGNQKDFIKAQDLSNLENTVAALKSEFQKT
LNDKTENQKSLEENLATAKHDLLRVQEQQLHMAEKELEKKFQOTAAYRNMKEILTKKNDQIKDLRKRLAQYEPED

1195/6881
FIGURE 1115

AGATGACGTGCGGCTCGTG GGGCAGCTCGGCAGCATGGCGTCCGTGACGCTGAGCGAGGCGGAGAAGGTGTACAT
CGTG CATGGCGTCCAGGAAGACCTCCGTGTGGATGGCCGTGGCTGTGAGGACTACCGATGTGTGCGAAGTGGAAC
TGATGTGGTGTCCAACACTAGTGGGTCCGCCAGGGTCAAGCTGGGTACACACAGACATCTTGGTGGGAGTGAAAGC
AGAAATGGGGACGCCGAAGCTGGAGAAACCAATGAAGGCTACTTGGAGTTCTTTGTTGACTGTT CAGCCAGTGC
TACCCCTGAATTTGAAGGTAGAGGAGGTGATGACCTTGGCACCGAGATCGCTAACACCCTCTATCGGATATTTAA
CAATAAAAGCAGTGTGACTTAAAGACCCTCTGCATTAGTCCTCGGGAGCACTGCTGGGTTCCTATGTGGATGT
GCTGCTTCTGGAATGTGGTGGAAATTTGTTTGATGCCATTTCCATTGCTGTAAAGGCTGCTCTCTTCAATACAAG
GATACCAAGGGTTCGAGTTTTGGAGGATGAAGAGGGGTGGAAGGACATTGAATTGTCAGATGACCCTTATGACTG
CATACGACTAAGTGTGGAGAATGTCCCCTGCATTGTCACTCTGTGCAAGATTGGCTATCGGCATGTGGTGGATGC
TACTCTTCAGGAGGAGGCTGCTCGCTGGCCAGCTTGCTGGTGTGGTGACCAGCAAGGGAGTTGTGACGTGCAT
GAGGAAAGTGGGGAAGGGCAGCCTGGACCCAGAGAGCATCTTCGAGATGATGGAGACTGGCAAGCGTGTGGGCAA
GGTACTGCATGCCTCCTTG CAGAGTGTGTGCACAAGGAAGAAAGCCTGGGGCCCAAGAGACAGAAAGTTGGATT
CCTGGGATGATTTGCACATCAACTGCTCAACTGTGGATTGTTTTTACTTTTCCTTTTAAACCGGTTTCGTATATA
TTTTCTTCGCTGTTACGAATTTACAGCAGCATTTGTACATGTAAAATTAAAGGCTATTTTCTGGTCTGGTT

1196/6881
FIGURE 1116

MASVTLSEAEKVYIVHGVQEDLRVDGRGCEDYRCVEVETDVVSNTSGSARVKLGHTDILVG VKAEMGTPKLEKPN
EGYLEFFVDCSASATPEFEGRGDDLGTETIANTLYRIFNNKSSVDLKTLCISPREHCWVLYVDVLLLECGGNLFD
AISI AVKAALFNTRIPRVRVLEDEEGSKDIELSDDPYDCIRLSVENVPCIVTLCKIGYRHVVDATLQEEACSLAS
LLVSVTSKGVVTCMRKVGKGS LDPESIFEMMETGKRVGKVLHASLQSVVHKEESLGPKRQKVGF LG

1197/6881

FIGURE 1117

CACCGTGCCCAAGAGAAAGGCTGAAGGGGATGCTAAAGGAGATAAAGCCAAGGTGAAGGATGAACCACAGAGAAG
ATCCATGAGGTTTTCTGCTAAACCTGCTCCTCCAAAGCCAGAGCCCAAGCCTAAAAAGGCCCTGCAAAGAAGGG
AGAGAAGATACCCAAAGGGAAAAAGGGAAAAGCTGATGCTGGCGAGGAGGGGAATAACCCTGCAGAAAACGGAGA
TGCCAAAACAGACCAGGCACAGAAAGCTGAAGGTGCTGGAGGTGCCAAGTGAAGCATGTGCATTTTTTATAACTG
TGTACTTTTGATGACTGTACAGCTTGAAATACTATTTTTATCAAGTTTTATAAAAATGCAGAATTTTGTCTTACT
TTTTTTTTTAAAGCTATGCTATTAGCACACAGAACTTCAGTGTTGTTTTAGGGAGAAGGGGCATATGTCACTA
ATAGAATGTCCCAAAGCTGGATTGATGTGGGGAAAACACCTTTCCCTTCTAGCTTTGAGAGACTTCCTCTTGGC
TCCCAGGAGGAGGGATTCCCTGACTTTGACACAGATGGTCACCTTGGCACAAAAGCCTTGTAGGATGGAAAAACA
AATTTGTTTTTATGTCCTCTTCTCCCTTTCCATCCTTCAGCATAGACTTAACTCCCTTAAGCCCAGACATCTGTT
GGGACCTGACCCCGTCATTGGTTACCAGTGTGTCAGGCAATCTGGACTTTCCAGTGATGCCACTGAGATGGCA
CCTGTCAAAACAGCGGTGGTTCCATTTCTAGACTGTGGATCTTCAGATAAATTCTGCCATTTTCATTTCACTTCC
TGAAACTCAGGGTCGGCTTGTGAAAAGCTGTTAAACAACATGCTAAATGTGAAATGTCAACCCTCACTCTAAACT
TTCCCTGTTTCAGAGCATCAGACGAAAACCTTCATTGGGTTTTATAGTGGCTTTCAGATTTTTGGTAGTCAATTGAA
GAAGGGAGTTTAAATTTGTTGTATACTGTTTCATGATTGTCTGCCCATGTCCTGCCTGAAATACCATGATTGTTT
ATGGAAAGTATCTTTAATAAAGCTGGATACAGTTTGGC

1198/6881
FIGURE 1118

VPKRKAEGDAKGDKAKVKDEPQRRSMRFSAKPAPPKPEPKPKKAPAKKGEKIPKGKKGKADAGEEGNPAENGDA
KTDQAQKAEGAGGAK

1199/6881
FIGURE 1119

AAGCCTCTCGGTCTGTGGCAGCAGCGTTGGCCCCGGCCCCGGGAGCGGAGAGCGAGGGGAGGCGGAGACGGAGGAA
GGTCTGAGGAGCAGCTTCAGTCCCCGCCGAGCCGCCACCGCAGGTCGAGGACGGTCGGACTCCCGCGGCGGGAGG
AGCCTGTTCCCTGAGGGTATTTGAAGTATACCATACACTGTTTTGAAAATCCAGCGTGGACAATGGCTACTCA
AGCTGATTTGATGGAGTTGGACATGGCCATGGAACCAGACAGAAAAGCGGCTGTAGTCACTGGCAGCAACAGTC
TTACCTGGACTCTGGAATCCATTCTGGTGCCACTACCACAGCTCCTTCTCTGAGTGGTAAAGGCAATCCTGAGGA
AGAGGATGTGGATACCTCCCAAGTCCTGTATGAGTGGGAACAGGGATTTTCTCAGTCCTTCACTCAAGAACAAGT
AGCTGATATTGATGGACAGTATGCAATGACTCGAGCTCAGAGGGTACGAGCTGCTATGTTCCCTGAGACATTAGA
TGAGGGCATGCAGATCCCATCTACACAGTTTGATGCTGCTCATCCCACTAATGTCCAGCGTTTGGCTGAACCATC
ACAGATGCTGAAACATGCAGTTGTAACTTGATTAACATCAAGATGATGCAGAACTTGCCACACGTGCAATCCC
TGAAC TGACAAAAC TGCTAAATGACGAGGACCAGGTGGTGGTTAATAAGGCTGCAGTTATGGTCCATCAGCTTTC
TAAAAAGGAAGCTTCCAGACACGCTATCATGCGTTCTCCTCAGATGGTGTCTGCTATTGTACGTACCATGCAGAA
TACAAATGATGTAGAAACAGCTCGTTGTACCGCTGGGACCTTGCCATAACCTTTCCTATCATCGTGAGGGCTTACT
GGCCATCTTTAAGTCTGGAGGCATTCTGCCCTGGTGAAAATGCTTGGTTTACCAGTGGATTCTGTGTTGTTTTA
TGCCATTACAACCTCTCCACAACCTTTTATTACATCAAGAAGGAGCTAAAATGGCAGTGCCTTTAGCTGGTGGCT
GCAGAAAATGGTTGCCTTGCTCAACAAAACAAATGTTAAATCTTGGCTATTACGACAGACTGCCTTCAAATTTT
AGCTTATGGCAACCAAGAAAGCAAGCTCATCATACTGGCTAGTGGTGGACCCCAAGCTTTAGTAAATATAATGAG
GACCTATACTTACGAAAACTACTGTGGACCACAAGCAGAGTGCTGAAGGTGCTATCTGTCTGCTCTAGTAATAA
GCGGGCTATTGTAGAAGCTGGTGGAAATGCAAGCTTTAGGACTTCACCTGACAGATCCAAGTCAACGTCTTGTTC
GAAC TGCTTTGGACTCTCAGGAATCTTTCAGATGCTGCACTAAACAGGAAGGGATGGAAGGTCTCCTTGGGAC
TCTTGTTTCACTTCTGGGTTTCAATGATATAAAATGTGGTCACTGTGAGCTGGAATTCTTTCAACCTCACTTG
CAATAATTATAAGAACAAGATGATGGTCTGCCAAGTGGGTGGTATAGAGGCTCTGTGCGTACTGTCTTTCGGGC
TGGTGACAGGGAAGACATCACTGAGCCTGCCATCTGTGCTCTTCGTCTATCTGACCAGCCGACCAAGAAGACAGA
GATGGCCCAGAATGCAGTTTCGCTTCACTATGGACTACCAAGTGTGGTTAAGCTCTTACACCCACCATCCCCTG
GCCTCTGATAAAGGCTACTGTTGGATTGATTGCAAACTTGGCCCTTTGTCCCGCAAATCATGCACCTTTGCGTGA
GCAGGGTGCCATTCCACGACTAGTTTCACTTGTGCTTGTGCTGCATCAGGATACCCAGCGCCGTACGTCCATGGG
TGGGACACAGCAGCAATTTGTGGAGGGGTCCGCATGGAAGAAATAGTTGAAGGTGTACCGGAGCCCTTCACAT
CCTAGCTCGGGATGTTTACAACCGAATTGTTATCAGAGGACTAAATACCATTCCATTGTTTGTGAGCTGCTTTA
TTCTCCCATTTGAAAACATCCAAAGAGTAGCTGCAGGGGTCTCTGTGAACCTTGCTCAGGACAAGGAAGCTGCAGA
AGCTATTGAAGCTGAGGGAGCCACAGCTCCTCTGACAGAGTTACTTCACTCTAGGAATGAAGGTGTGGCGACATA
TGCAGCTGCTGTTTTGTTCCGAATGTCTGAGGACAAGCCACAAGATTACAAGAAACGGCTTTCAGTTGAGCTGAC
CAGCTCTCTCTTCAGAACAGAGCCAATGGCTTGAATGAGACTGCTGATCTTGACTTGATATTGGTGGCCAGGG
AGAACCCCTTGATATCGCCAGGATGATCCTAGCTATCGTTCTTTCACTCTGGTGGATATGGCCAGGATGCCTT
GGGTATGGACCCCATGATGGAACATGAGATGGGTGGCCACCACCCTGGTGCTGACTATCCAGTTGATGGGCTGCC
AGATCTGGGGCATGCCCAGGACCTCATGGATGGGTGGCTCCAGGTGACAGCAATCAGCTGGCCTGGTTTGATAC
TGACCTGTAAATCATCCTTTAGCTGTATTGTCTGAACCTGCATTGTGATTGGCTGTAGAGTTGCTGAGAGGGCT
CGAGGGGTGGGCTGGTATCTCAGAAAGTGCCTGACACACTAACCAAGCTGAGTTTCTATGGGAACAATTGAAGT
AACTTTTTGTTCTGGTCCTTTTTGGTTCGAGGAGTAACAATACAAATGGATTTTGGGAGTGACTCAAGAAGTGAA
GAATGCACAAGAATGGATCACAAGATGGAATTTATCAAACCTTAGCCTTGCTTGTAAATTTTTTTTTTTTTTTT
TTTAAGAATATCTGTAATGGTACTGACTTTTGCTTGTGCTTTGAAGTAGCTCTTTTTTTTTTTTTTTTTTTTTT
CAGTAAGTGTTTTTAAGTCTCTCGTAGTGTTAAGTTATAGTGAATACTGCTACAGCAATTTCTAATTTTTTAAGA
ATTGAGTAATGGTGTAGAACACTAATTCATAATCACTCTAATTAATTGTAATCTGAATAAAGTGTAACAATTGTG
TAGCCTTTTTGTATAAAATAGACAAATAGAAAATGGTCCAATTAGTTTCTTTTTTAATATGCTTAAAAATAAGCAG
GTGGATCTATTTGATGTTTTGATCAAAAACATTTTGGGATATGATGGGTAGGGTAAATCAGTAAGAGGTGTTA
TTTGAACCTTGTTTTGGACAGTTTACCAGTTGCCTTTTATCCAAAGTTGTTGTAACCTGCTGTGATACGATGC
TTCAAGAGAAAATGCGGTTATAAAAAATGGTTTCAGAATTAACTTTTAATTCATT

1200/6881
FIGURE 1120

GGGACTGCGAGCCAGGGACTCGGGCCCGGGGCGGGAAGAAGTGGGGCAGCGCTTGGCCAGGCCGAAAGGACTTT
GGGGGTGGGGGCTGGGAGTCCGTGTCTCGAATGAGGGAGGAGAGGTGGAGTTGCCGGGGCTCAGGCCCGGCCTCG
AGCATGGGCGGATGAGAGGAGTCGGGAGCCGAGGCCTAGGGTCCTTCGGGTGAGGGGAGACGGAGCCAGCGAGGA
GATGGAGCAGAAGCTTGTGGAGGAGATTCTTCAAGCAATCACTATGTCAACAGACACAGGTGTTCCCTTCCTTC
ATATGAGGAAGATCAGGGATCAAACTCATTGAAAAGCTAAAGAGGCACCATTCGTACCCGTTGGAATAGCGGG
TTTTGCAGCAATTGTTGCATATGGATTATATAAACTGAAGAGCAGGGGAAATACTAAAATGTCCATTCATCTGAT
CCACATGCGTGTGGCAGCCCAAGGCTTTGTTGTAGGAGCAATGACTGTTGGTATGGGCTATTCCATGTATCGGGA
ATTCTGGGCCTTTAGTTAGATGTCTTATTATTAAAGTTACCTATTATTGTTGGAAATAAACTAATTTGTATGGGT
TTAGATGGTAACATGGCATTGGAATATTGGCTTCCTTTCTTGCAGGCTTGATTTGCTTGGTGACCGAATTACTA
GTGACTAGTTTACTAAGTAGGTCATTCAAGGAAGTCAAGTTAACTTAAACATGTCACCTAAATGCACTTGATGGT
GTTGAAATGTCCACCTTCTTAAATTTTAAAGATGAAGTTAGTTCTAAAGAAGATAACAGGCCAATCCTGAAGGTA
CTCCCTGTTTGCTGCAGAATGTCAGAT

1201/6881
FIGURE 1121

TGGTGCTGACCAGCCACTTACCCACAGGAGCCACATCCAACCTCGGCTCTCAGCTGAGGAAGCAGCCCATCGCCTT
GCACGCCTGGACACTAACTCACCTAGCATCTTCCAGCACCTGGACGAACTCAAGGCATTCTTCGCAGAGGTTGTC
AGTGATGGTGTACCCCTGGTGCTAGCCCTGGTCCCCCACCGGCAGCCCCACTCCTTCATCACCCAGGGTTCCCCA
GACCTGTTGGTGACTGTGAGTGCCAGTGGGCTGCTGGGCACCCACAGCTGGTTGCCCTATGACCGCAACATAAGC
AACTACTTCAGCTTCAGCAAAGACCCCAACCATGGGCAGCCACAAGACGCAGCGACTGCTGAGTGGCCCGTGGGTG
CCAGGCAGTGGTGTGAGTGGACAAGCACTGGCAGTGGCCCCGGATGGAAAGCTGCTATTACCGGTGGCCACTGG
GATGGCAGCCTGCGGGTGACTGCACTACCCCGTGGCAAGCTGTTGAGCCAGCTCAGCTGCCACCTTGATGTAGTA
ACCTGCCTTGCACTGGACACCTGTGGCATCTACCTCATCTCAGGCTCCCGGGACACCACGTGCATGGTGTGGCGG
CTCCTGCATCAGGTGTGCCTCGTGGGCAGCTCTGTGGGGCCCCCGTAGCCCAGACCTGCAGCCCATCCGTCCCTC
AGTGGCCTTCCAGTCCTGTCTCCTCTAGTC

1202/6881

FIGURE 1122A

AGTTGCAGCGCGCCGGGAAGATGGTGGAGGACGGCGGGAGGAGCTGGAGGACTCTGGTGCACTTCTCCGTGTCTG
AGTTGCCTAGTCGCGGCTACGGCGTCATGGAGGAGATCCGGCGGCAGGGCAAGCTGTGCGACGTGACCCCTCAAGA
TTGGGGACCACAAATTCAGTGCCACCGGATTGTCTTAGCAGCCTCGATCCCCTATTTCATGCTATGTTTACAA
ATGACATGATGGAGTGCAAGCAGGATGAGATTGTAATGCAAGGAATGGACCCAAGTGCCCTGGAGGCTCTGATCA
ACTTTGCCTACAACGGCAACCTTGCCATTGACCAGCAAAATGTCCAGTCATTGCTGATGGGGGCGAGCTTCTCTGC
AGCTGCAGAGCATCAAAGACGCTGCTGCACATTCTTCGAGAACGGCTTCACCCAAAAAACTGCCTGGGTGTGC
GCCAGTTTGTCTGAGACAATGATGTGTGCTGTGCTGTACGACGCTGCCAACAGCTTCATCCACCAGCACTTTGTGG
AGGTGTCCATGTGAGAAGAGTTCTTGCCCTGCCCTTGGAAGACGTGCTTGAGCTGGTGTCTCGGGATGAGCTGA
ATGTCAAATCTGAGGAGCAGGTCTTTGAAGCTGCATTGGCCCTGAGATACGACCGGGAGCAGAGGGGTCCCT
ACCTGCCTGAGCTGCTGTCCAATATCCGCTGCCCTCTGCTCGGCCCACTTCCTTTTCAGACAGAGTACAGCAGG
ATGACCTGGTGCCTTGTGCTGCCACAAATGCAGGACCTTGGTAGACGAAGCAAAGGACTACCACCTCATGCCAGAGC
GCCGGCCCCACCTGCCAGCTTTTCAGAACCCGGCCACGCTGCTGCACATCCATCGCTGGACTTATCTACGCTGTAG
GGGGCTCAACTCAGCAGGTGATTCCCTGAATGTGGTGAAGTGTTTCGACCCCATTGCCAATTGCTGGGAGAGAT
GCCGTCCCATGACAAACAGCCCCGACCGCGCTTGGCGTGGCTGTGGTGAACGGGCTTCTCTATGCCATCGGAGGAT
ATGACGGCCAGCTACGGCTGAGCACTGTGAGGCCTACAACCCGGAGACAGACATGGACCAGAGTGGGGAGCA
TGAATAGCAAGAGAAGTGCCATGGGGACAGTCGTGCTGGATGGGCAGATCTACGTCTGTGGGGGCTACGATGGCA
ACTCTTCCCTCAGCTCCGTGGAGACCTACTCAGCTGAGACGGACAAATGGACAGTGGTGACCTCGATGAGCTCGA
ATCGCAGTGTCTGCTGGGTTTACAGTCTTTGAGGGCAGGATATATGTGTGAGGCGCCATGATGGTTTGCAGATCT
TCAGCAGTGTGGAACACTACAACCACCACAGCCACCTGGCACCTTGACGTGGCATGCTCAACAAGCGCTGCC
GGCAGGAGCCGCTCCCTGGGGAGCAAGATGTTTGTCTGCGGGGGCTACGATGGCTCTGGCTTCTCAGCATTG
CCGAGATGTACAGCTCTGTGGCAGACCAGTGGTGCCTGATTGTCCCCATGCACACGCGCAGGAGCCGGGTCTCC
TGGTGGCCAGCTGTGGGCGCCTCTACGCTGTTGGGGGCTACGACGGACAGTCAAACCTAAGCTCAGTGGAGATGT
ATGACCAGAGACAGACTGCTGGACATTCTATGGCCCCCATGGCGTGCCATGAGGGAGGGGTGGTGTGGGCTGCA
TCCCTCTCTCACCATCTAAGGCAGAGGATGGGATGTGGTGGGGCAGGGATCTGGTACAGACATAGGCGCTTCT
TCCAGGAACAGTCCCTCAGGAGAGGCAGTGGACCAGAAGAGATGGCGAAACGTGAGCTCGCCGGAGGTACAGTTT
TTCCAGGTGCTTAAGCCCTCCCCACTGTGCCACCCTTGTGACCTTCAGGCTTGGGTTCATCAAGATGCACAGCAT
GGAACACAAGCTCCTCTGGATCCTGCAGCTGGTGACATGGAACGTGTTTCTGGTCCACATGAACACAGGCTCCAT
CCAGGCCCAGCTCCTACCCACCGCCTCTCTGTGGCCAGCTGTTTACAGAAGGCCTTCCATCTGATGCTCCCAT
CGCCTGCTTGCTCTCCAGCCGAGTCTGGCCAATTGGCATGGGGAGGCTGCAGTGTCCAAGCCTGCTGGAACCTG
GGATGTAGCTGGGGACGAAAGGACAGACCCAAGCGTTCTCCCTGCCTGAGATGGTGTGGCCACAGCAGTGGAAAG
CTGCACACAGGCACATTCTTCTTCCACAGTGGGGCACCAAGGATTCTGTCTCATTGCTGGGTAAGCAGGGAGA
AGAGAAGTTTTCCCATGTCTAATTTTGGGATTTTCAGTGAGGCCTTTTGATCTGTCCAGGAGAACAGAAGGGAAA
AAAAGATACTTGAAAGAACTGAAGGAAATTTAAACAAAGAAACACTTGAAAGAACTGGAAGAAAAATAATTT
TTTTATGTGAACAAATTTTGAAGAAGAAAAAGCATAAAAGACACTAACGGCAATCTATGTTTAAATGGA
TCGTCTAACTGGAGAAGGGCGGTATCCACCCACATTCCGATCCAGGGTCTGAGGCCTCGCATTGAGCTGGGG
GTTCCCTCTGAGCCCCAGTGTGTGTGGAATCAGTGCACCTTTGACTGGGCCTGTAGTAAGGTGCTCATGGGGTTT
GTCTTCTCACCCACCATCAGAGGACTTTTAAATCATAGGCGTAGAGAGTTAGGCTATCTGCTGAATTACTGCCA
CTCTTCTTGGTGGGGGCTCCTAGCTGTGGCTGGGGGCTCCAGGCGCCCTGTGATTACCTCCTACTGCCACCATG
GCGCTCATTACAGATTCCCCACTCTACTAACATTGCTTCTTTTTTGACCAGCAGGAAACAGCAGGTCTGGCCAG
ATTCTCACTTGCCCATCAATCTCGTTCTTGGATGATTTCCTCATTGTGATGCTTCTGGGGCACGTGACCATAT
GCACCTCTAGAACCTAACAGGGCTTCTTCTACCAGCTGTGGCGGGCTTGGTCTGGTAACCTTGTCTGCTCTG
CCATTCCACTGCTCCTCCATCCACTCGCCAATCCCAAGAGTCTGGCCTCCCTCCAGCCCTGGGCAGACTGACCAG
CAAGGTGGACCTTTACATTCAAGCAGAGCTGGCTTTTATGACATAAAGAACTAAAGGCCGAAAGAAATCTCTTGCT
GCTGCAAAGAACAGATTTTATATTTCTTCTCTAATCTTGGCAATGACCTTTACCTTTTGAAAGATTTTCATAT
TGCTTCTCTCTCCCTGGATAGGACCTAATGTAGCACAGCGGACTCAAAGAGGAGGACATTTTCTCTTGCCAGTG
CACTGGGCAGTGGGGCTGTCTTCAACTGCTGCTGCCAAAATGGTTTTCTAAAATCTTCCAGTAGAGACTAAA
AGAAGATTCAATTCTGTAAACCAAGACTGAGTCTTAGGGCTCCAGTCTCCACCTGCTTGGTTTTCTATCCTTTG
CTGCTGCTGGGGTGGCCTGGAAGCCTGTTAGAAAAGGCACAATGTGGAGCCTGGGGTGTCTCCCCACCCAG

1203/6881

FIGURE 1122B

GACCGTCAGGTTTACCAGTGTGTGCAATCGCCATGTATTTCAGAGGGAAGTACCTTTGTTACCTACAACCTTAGGAG
CTAGGCCTCTGCTACAAGCACTTGAAAATGATATTTTTATTTTAAACGTCTCAACAATCTGATATCGGATGTCGT
TTAACCTGGGCTCGTGGTAGGGCTCCAGCAITTTCTCCCTCCTTCCTGGTTTGCCTGTAGGGGTAGACTCGGAAGG
TGGGTGGGGTGTGCATTTCTGTAGGAGTGTATCAGTGCTTGTCTTATTATAAGCCCCCTTTCTTTTGTGAATTT
GAAGTAGCACCAACAAGCCTGGATTGTGAAGGTATTAAGAATCGGTCTGTGGGCTACTGAGTGGGTCCTTAGGAT
ACTGGCCCAGATTTTGCCACTGGGTATGGCAGATCATTTTCTACCATGGCCTGCTGCTCTTGTAGTGGACTTCCT
GAGTCCAATCCCACCTCCTGGTGTAGAATTTACACTGCTGCACCTGAGGTCGATGTTTCAAAGTAAGATCAAGCC
AGTGTTTTGATCTGGGCTCTGAGCACAAGTCAGGAAACACCAACATATTCACACTCTCCCAGTAGGTTCCCTCAGT
CCGATGGTGAATGGCTATTGTAATGGCTGGTCTGGCTCTTTGGTGTGGAGCCTTTCCAATAGCCCCATGAAA
AGAAGCATCACCCAAGGATATTGTAAAAAGGATGTAACAAGGAGATAGGGTAGACATTGTACTCAGTGGGCCTTG
GGCCTAGCCCAGCTCTGAGCAGAGGACTGTGGCATTCACTGTCCCTTGAGTGTTCACCTTCTTGATAACACAC
GGGCCTTCTCTTCTGGATTTCATCAGAGATTACAGCCAGATGGGGCTGAAGACCATCCTCTTGACCACAGAGGT
GTGACTGTGGGAATTCCTCCCAATTTATGGTTTCCCAGAAAATCTTAGTTCCTTTTATTTATAGAATGCATGTCT
TTTGTGTTAAGAAACCAAAGAGAAATAAAGAGAACACTCCTAAT

1204/6881

FIGURE 1123A

AGAGAGGGAGGGCGCCACGCACCGGACTGCGGGCCGAGAGCGCGCACGCCGCGCTCCGCCCCCTGCTGCCGCCCCC
GTCGCCGCCGCCGCCGCCGCCGCGCAGCTTGGGAGGTGCTGCCACCACAGGTACCTGCACATGTTGTTCTTTGTCAG
TGCTGTCAAGTGTGTGCCAGGGTGATCCATGGTCACTTTCCGGGATGGCAGCAAGGTGACTTCGGCTGAGGATGA
CCCTGACTGAAAGGCTGCGTGAGAAGATATCTCGGGCCTTCTACAACCATGGGCTCCTCTGTGCATCCTATCCCA
TCCCCATCATCCTCTTCACAGGGTCTGTGCATCTTAGCCTGTGTGCTACCCACTGCTGAAACTCCCCCTTGCCAGGAA
CAGGACCTGTGGAATTACACACCCCTGTGAAGGATTACTCGCCCCACCTGTGGACTCTGACCGCAAACAAGGAG
AGCCTACTGAGCAGCCTGAGTGGTATGTGGGTGCCCGGTGGCTTATGTCCAGCAGATATTGTGAAGTCTCTCAG
TGTTTCCCTGGCACAAGAACCTCCTGGCAGTAGATGTATTTCGTTACCTTTGTCCCGGGCATTCCAACCTGGTGG
AGGAGATCCGGAACCACGTGCTGAGAGACAGCTCTGGGATCAGGAGCTTGGAGGAGTTGTGTCTGCAAGTGACCG
ACCTGCTGCCAGGCTTAGGAAGCTCAGGAACCTACTCCCTGAGCATGGATGCCTGCTGCTGTCCCCCTGGGAACT
TCTGGCAGAATGACTGGGAACGCTTCCATGCTGATCTGACATCATTGGGACCATCCACCAGCAGGACCTAAAA
CCCTGCAGACTTCAGCCACACTCAAAGACTTGTTATTGGTGTTCCTGGGAAGTACAGCGGGGTGAGCCTCTACA
CCAGGAAGAGGATGGTCTCCTACACCATCACCCCTGGTCTTCCAGCACTACCATGCCAAGTTCCTGGGCAGCCTGC
GTGCCCCGCTGATGCTTCTGCACCCACAGCCCCAACTGCAGCCTTCGGGCGGAGAGCCTGGTCCACGTGCACTTCA
AGGAGGAGATTGGTGTGCTGAGCTCATCCCCCTTGTGACCACCTACATCATCTTGTTCCTACATCTACTTCT
CCACGCGGAAGATCGACATGGTCAAGTCCAAGTGGGGGCTGGCCCTGGCTGCCGTGGTCACAGTGTCTAGCTCGC
TGCTCATGTCTGTGGGACTCTGCACACTCTTCGGCCTGACGCCCCACCTCAATGGCGGCGAGATTTTCCCTTACC
TTGTGGTGGTTATTGGGTTAGAGAATGTGTTGGTGTCTACCAAGTCTGTGGTCTCAACCCCGGTAGACCTGGAGG
TGAAGCTGCGGATCGCCCAAGGCCTAAGCAGCGAGAGCTGGTCCATCATGAAGAATGGCCACGGAGCTGGGCA
TCATCCTCATCGGCTACTTCACCCTAGTGCCCCCATCCAGGAGTTCTGTCTCTTTGCTGTCTGTGGGGCTGGTGT
CTGACTTCTTCCCTCAGATGCTGTTTTTCAACACTGTCTGTCCATTGACATTGCGCGGATGGAGCTAGCAGACC
TGAACAAGCGACTGCCCCCTGAGGCCTGCCTGCCCTCAGCCAAGCCAGTGGGACAGCCAACGCGCTACGAGCGGC
AGCTGGCTGTGAGGCGCTCCACACCCACACCATCACGTTGCAGCCGTCTTCCTTCCGAAACCTGCGGCTCCCCA
AGAGGCTGCGTGTGTCTACTTCCGTGCCCCGACCCGCTGGCACAGCGCCTCATCATGGCTGGCACCGTTGTCT
GGATTGGCATCCTGGTATACACAGACCCAGCAGGGCTGCGCAACTACCTCGCTGCCAGGTGACGGAACAGAGCC
CATTGGGTGAGGGAGCCCTGGCTCCCATGCCCGTGCCTAGTGGCATGTGCCCCCAGCCACCCGGACCTGGCT
TCTCCATCTTCCACCTGATGCCCTAAGCTACCTGAGAACCAGACGTGCGCAGGCGAGTCACTGAGCGTGGAG
GTCCAGCAGAGGTTGTCCATGACAGCCAGTCCCAGAGGTAACCTGGGGGCTGAGGATGAGGAACCTTTGGAGGA
AATTGTCTTCCGCCACTGGCCGACGCTCTTACGCTATTACAACATCACACTGGCCAAGAGGTACATCAGCCTGC
TGCCCGTCATCCAGTCACGCTCCGCTGAACCCGAGGGAGGCTCTGGAGGGCCGGCACCCCTCAGGACGGCCGCA
GTGCTTGGCCCCCACCAGGGGCCATACCTGCTGGGCACTGGGAAGCAGGACCCAAGGGCCAGGTGGGGTGCAGG
CCCATGGAGACGTACGCTGTACAAGGTGGCGGCGCTGGGCTGGCCACCGGCATCGTCTTGGTGTCTGTGCTGC
TCTGCTCTACCGCTGCTATGCCCGCGCAACTACGGGACGCTGGGTGGTGGGCCCCGGGCGGAGGCGCGGGG
AGCTGCCCTGCGACGACTACGGCTATGCGCCACCCGAGACGGAGATCGTGCCGCTTGTGCTGCCGCGCCACCTCA
TGGACATCGAGTGCCCTGGCCAGCGACGGCATGCTGCTGGTGAGCTGCTGCTGGCAGGCCACGTCTGCGTGTGGG
ACGCGCAGACCGGGGATTGCCTAACGCGCATTCCGCGCCAGGGCAGCGCCGGGACAGTGGCGTGGGCAGCGGGC
TTGAGGCTCAGGAGAGCTGGGAACGACTTTCAGATGGTGGGAAGGCTGGTCCAGAGGAGCCTGGGGACAGCCCTC
CCCTGAGACACCGCCCCGGGGCCCTCCGCGCCTTCCCTCTTCGGGGACCAAGCCTGACCTCACCTGCTTAATTG
ACACCAACTTTTTCAGCGCAGCCTCGGTCTCACAGCCCACTCAGCCCGAGCCCCGCGACCGGGCGGTCTGTGGCC
GCTCTCGGGACTCCCCAGGCTATGACTTCAGCTGCCTGGTGCAGCGGGTGTACCAGGAGGAGGGGCTGGCGGGC
TCTGCACACCAAGCCTGCGCCACCCCTGCGCTGGGCGGTGCTGTCCAGGCCCCCTGAGGACGAGGGTGGCTCCC
CCGAGAAAGGCTCCCTTCCCTGCGCTGGGCCCCAGTGGCCGAGGGTTCCATCTGGAGCTTGGAGCTGCAGGGCA
ACCTCATCGTGGTGGGGCGGAGCAGCGCGCGCTGGAGGTGGGACGCCATTGAAGGGGTGCTGTGCTGCAGCA
GCGAGGAGGTCTCTCAGGCATTACCGCTCTGGTGTCTTGGACAAAAGGATTGTGGCTGCACGGCTCAACGGTT
CCCTTGATTTCTTCTCCTTGGAGACCCACACTGCCCTCAGCCCCCTGCAGTTTAGAGGGACCCAGGGCGGGGCA
GTTCCCTGCTCTCCAGTGTACAGCAGCAGACAGATGGCCTGTACCTGACCCACACAGTGCCTGTGCAC
ACCAAAAACCCATCACAGCCCTGAAAGCCGCTGCTGGGCGCTTGGTGACTGGGAGCCAAGACCACACACTGAGAG
TGTTCCGTCTGGAGGACTCGTGTGCTCTTACCCCTCAGGGCCACTCAGGGGCCATCACGACCGTGTACATTG

1205/6881

FIGURE 1123B

ACCAGACCATGGTGCTGGCCAGTGGAGGACAAGATGGGGCCATCTGCCTGTGGGATGTACTGACTGGCAGCCGGG
TCAGCCATGTGTTTGCTACCGTGGGGATGTACCTCCCTTACCTGTACCACCTCCTGTGTATCAGCAGTGGCC
TGGATGACCTCATCAGCATCTGGGACCGCAGCACAGGCATCAAGTTCTACTCCATTGAGCAGGACCTGGGCTGTG
GTGCAAGCTTGGGTGTCTCTCAGACAACCTGCTGGTGACTGGCGGCCAGGGCTGTGTCTCCTTTTGGGACCTAA
ACTACGGGGACCTGTTACAGACAGTCTACCTGGGGAAGAACAGTGAGGCCAGCCTGCCCGCCAGATCCTGGTGC
TGGACAACGCTGCCATTGTCTGCAACTTTGGCAGTGAGCTCAGCCTGGTGTATGTGCCCTCTGTGCTGGAGAAGC
TGGACTGAGCGCAGGGCCTCCTTGCCCAGGCAGGAGGCTGGGGTGCTGTGTGGGGGCCAATGCACTGAACCTGGA
CTTGGGGGAAAGAGCCGAGTATCTTCCAGCCGCTGCCTCCTGACTGTAATAATATTAACTTTTTTAAAAAACCA
TATCATCATCTGTTCAGGCACTTTGGGA

1206/6881
FIGURE 1124

MTLTERLREKISRIFYNHGLLCASYPIPIILFTGFCILACCYP LLKLPLPGTGPVEFTTPVKDYSPPPVDSDRKQ
GEPTQPEWYVGAPVAYVQQIFVKSSVFPWHKNLLAVDVFRSPLSRAFLVEEIRNHVLRDSSGIRSLEELCLQV
TDLLPGLRKLRLNLLPEHGCLLLSPGNFWQNDWERFHADPDIIGTIHQHEPKTLQTSATLKDLLFGVPGKYSGVSL
YTRKRMVSYTITLVFQHYHAKFLGSLRARLMLLHPSPNCSLRAESLVHVHFKEEIGVAELIPLVTYIILFAYIY
FSTRKIDMVKSKWGLALAAVTVLSSLLMSVGLCTLFGTLPTLNGGEIFPYLVVVIGLENVLVLT KSVVSTPVDL
EVKLRIAQGLSSESWSIMKNMATELGIIILIGYFTLVPAIQEFCLFAVVGLVSDFFLQMLFFTTVLSIDIRME LA
DLNKRLPPEACLP SAKPVGQPTRYERQLAVRPSTPHITITLQPSFRNLRLPKRLRVVYFLARTLAQRLIMAGTV
VWIGILVYTD PAGLRNYLAAQVTEQSP LGE GALAMPVPVSGMLPPSHPDPAFSIFPPDAPKLPENQTS PGESPER
GGPAEVVHDSVPVEVTWGPEDDEELWRKLSFRHWPTLFSYYNITLAKRYISLLPVIPVTLRLNP REALEGRHPQDG
RSAWPPPGPI PAGHWEAGPKGPGGVQAHGDVTLTKVAALGLATGIVLVLLLCLYRVLCPRNYQLGGGPGRRRR
GELPCDDYGYAPPETEIVPLVLRGHLMDIECLASDGMLLVSCCLAGHVCVWDAQTGDCLTRIPRPGQRRDSGVGS
GLEAQESWERLSDGGKAGPEEPGDSPLRHRPRGPPPSLFGDQPDLTCLIDTNFSAQPRSSQFTQPEPRHRAVC
GRSRDSPGYDFSCLVQRVYQEEGLAAVCTPALRPPSPGPVLSQAPEDEGGSPEKGSPLAWAPSAEGSIWSLELQ
GNLIVVGRSSGRLEVWDAIEGVLCCSSEEVSSGITALVFLDKRIVAARLNGSLDFFSLEHTALSPLQFRGTPGR
GSSPASPVYSSSDTVACHLTHTVPCA HQKPITALKAAAGRLVTGSQDHTLRVFRLEDSCCLFTLQGHSGAITTVY
IDQTMVLASGGQDGAICLWDVLTGSRVSHVFAHRGDVTSLTCTTSCVISSGLDDLISIWDRSTGIKFYSIQQDLG
CGASLGVISDNLLVTGGQGCVSFWDNLNYGDL LQT VYLGKNSEAQPARQILVL DNAAIVCNFGSELSLVYVPSVLE
KLD

1207/6881
FIGURE 1125

GTTCTCTTCGCCCCGGTCCCTGCCGCGCACAGGCCTCGGGGTCGGCGGGAGCACGATCGCGGCCGCTAGGAGACTC
ATGGCGCTGGCCGCGCGCATCTCTCCGCGCCTGCAGCCGCTGGGTCCCCGCGCTGCTGGGCGACAGGGTCGCTCG
CGCGGCTTCTCTTCAAGCTGCGCCCAACCCGACCACACCAAGGAAGCCGCCGAGCCGAGTCAGGGATGGCCCCC
GGCGGGCTGGGGAAGGCGACGGAAGCTTGGTGAACGCTTCTAGGGACCTATTTAAAAGAGTTCCACAGCCAAA
AATCTTCTCAACAGTGTGATTGGAAGAGCCCTCGGCATCTCACATGCAAAAGACAACTAGTCTACGTGCACACA
AATGGACCGAAGAAAAAGAAAGTCACACTGCACATAAAATGGCCCAAGAGCGTGGAGGTAGAAGGCTATGGCAGC
AAGAAGATCGATGCTGAGCGGCAGGCTGCAGCTGCAGCCTGCCAGCTGTTCAAGGGTTGGGGTCTGCTAGGTCCC
CGGAATGAGTTGTTTGACGCAGCCAAATACCGAGTGCTAGCTGATCGCTTTGGCTCCCCCTGCCGACAGCTGGTGG
CGTCCGGAACCCACCATGCCCCCTACTTCCTGGCGGCAGCTGAATCCAGAGAGTATTTCGACCAGGGGGACCTGGG
GGCCTATCCCGCTCTTTAGGCCGGGAAGAAGAGGAGGACGAGGAGGAAGAGCTAGAAGAAGGGACCATAGATGTT
ACCGACTTCTTGTCCATGACCCAGCAGGATTCCACGCTCCACTCAGGGACTCAAGGGGGAGTTCCTTTGAGATG
ACAGATGACGACAGTGCCATTAGGGCTCTGACCCAGTTTCCACTTCCCAAGAACCCTTCTGGCCAAGGTGATTGAG
ATTGCAACGTCATCCTCCACAGCTAAGAACCCTCATGCAGTTCCATACTGTGGGCACCAAGACCAAGCTGTCTACA
CTCACCTGCTCTGGCCCTGCCCCATGACCTTTGTTGCCAAAGGGCGCCGCAAAGCAGAGGCTGAGAATAAGGCG
GCAGCCTTGGCCTGCAAGAACTGAAGAGCCTGGGCCTGGTGGACAGGAACAACGAACCGCTTACACACGGTTAC
GGAGCCGATGGCTGACGTATTTTCATGGCAGTCAAGTCCAATGGCAGCGTCTTCGTCCGGGACTCCTCTCAGGTGC
ACCCGCTAGCTGTGCTGCTGCTGACCGACGGGGACGTGCACATCCGTGATGACGGGCGCCGGGCCACCATCTCAC
TGAGCGACAGTGACCTGCTGCGGCTGGAGGGTGACTCGCGTACCGTGCGGCTGCTGAAGGAGCTGCGGCGGGCCC
TGGGCCCGCATGGTGGAGCGGAGCCTGCGCAGCGAGCTGGCTGCACTTCCCCCAGCGTACAGGAGGAGCAGGGC
AGCTGCTTGCCTACTGGCAGAGCTGCTGCGAGGACCCTGTGGCAGCTTTGATGTGCGCAAGACAGCTGACGACT
GAGCCCTGCTTCTGCTGGGGCTGTGTACAGAGTGCAATGTTTATTTAAATAAAGTTCTATTTATCCCTTG TG

1208/6881
FIGURE 1126

MAAARRLMALAAGISPRQLGPRAAGRQGRSRGFSSSCAHPDHTKEAAEAESGMAPGGPGEGDGSLSVNASRDLL
KEFPQPKNLLNSVIGRALGISHAKDKLVYVHTNGPKKKKVTLHIKWPKSVEVEGYGSKKIDAERQAAAAACQLFK
GWLLGPRNELFDAKYRVLADRF'GSPADSWWRPEPTMPPTSWRQLNPESIRPGGPGGLSRSLGREEEDEEEEL
EEGTIDVTDFLSMTQQDSHAPLRDSRGSSFEMTDDDSAIRALTQFPLPKNLLAKVIQIATSSSTAKNLMQFHTVG
TKTKLSTLTLLWPCPMTFVAKGRRKAEAENKAAALACKKLKSLGLVDRNNEPLTHGYGADG

1209/6881
FIGURE 1127

CGAAAGGCCGGCCTGGCTGCGACAGCCTGGGTAAGAGGTGTAGGTCGGCTTGGTTTTCTGCTACCCGGAGCTGGG
CAAGCGGGTGGGAGAACAGCGAAGACAGCGTGAGCCTGGGCCGTTGCCTCGAGGCTCTCGCCCGGCTTCTCTTGC
CGACCCGCCACGTTTGTGGATTAAATCTTCAGGTTGCCGGCGCCCGCCCGCCGCTGGCCTCGCGGTGTGAGA
GGGAAGCACCCGTGCCTGTGGCTGGTGGCTGGCGCCTGGAGGGTCCGCACACCCGCCCGCCGCGCGCTTGCCC
GCGGCAGCCCGCTCCCTGAACCGCGGAGTCGTGTTGTGTTGACCCGCGGGCGCCGGTGGCGCGCGCGCGAGGC
CGGTGTGCGGCGGGCGGGGCGGTGCGGGCGGAGGCAGAGGAAGAGGGAGCGGGAGCTCTGCGAGGCCGGCGCCG
CCATGGAAC TGCGCCCGGAGCCCCGCACCGCCGCCGCTGCTCTTCGCTGCAGCCCCCTCCCGCTCGCAGC
CCGTCGTGAAGGCGCTATTTGGCGCTTCAGCCGCCGGGGGACTGTGCGCTGTACCAACCTGACCGTCACTATGG
ACCAGCTGCAGGGTCTGGGCAGTGATTATGAGCAACCACTGGAGGTGAAGAACAACAGTAATCTGCAGAGAATGG
GCTCCTCCGAGTCAACAGATTTCAGGTTTCTGTCTAGATTCTCCTGGGCCATTGGACAGTAAAGAAAACCTTGAAA
ATCCTATGAGAAGAATACATTCCCTACCTCAGAAGCTGTTGGGATGTAGTCCAGCTCTGAAGAGGAGCCATTCTG
ATTCTCTTGACCATGACATCTTTCAGCTCATCGACCCAGATGAGAACAGGAAAAATGAAGCCTTTGAGTTAAGA
AGCCAGTAAGACCTGTATCTCGTGGCTGCCTGCACTCTCATGGACTCCAGGAGGGTAAAGATCTCTTCACACAGA
GGCAGAACTCTGCCCCAGCTCGGATGCTTTCTCAAATGAAAGAGATAGCAGTGAACCAGGGAATTTCACTCCTC
TTTTTACACCCAGTCACCTGTGACAGCCACTTTGTCTGATGAGGATGATGGCTTCGTGGACCTTCTCGATGAGAG
AGAATCTGAAGAATGAGGAGGAGACCCCTCGTGCATGGCAAGCCTCTGGACAGCTCCTCTCGTCATGAGAACTA
CAAACCTTGACAACCGATGCAAGCTGTTGACTCCCTTCCCTGTGTAGCTCCAGCACTCGGTGAGTTGAAGA
GACCAGAACGATCTCAAGAGGAGTCTCCACCTGGAAGTACAAAGAGGAGGAAGAGCATGTCTGGGGCCAGCCCCA
AAGAGTCAACTAATCCAGAGAAGGCCCATGAGACTCTTCATCAGTCTTTATCCCTGGCATCTTCCCCAAAGGAA
CCATTGAGAACATTTTGGACAATGACCCAAGGGACCTTATAGGAGACTTCTCCAAGGGTTATCTCTTTCATACAG
TTGCTGGGAAACATCAGGATTTAAAATACATCTCTCCAGAAATTATGGCATCTGTTTTGAATGGCAAGTTTGCCA
ACCTCATTAAGAGTTTGTATCATCGACTGTGATACCCATATGAATACGAGGGAGGCCACATCAAGGGTGCAG
TGAACCTGCACATGGAAGAAGAGGTTGAAGACTTCTTATTGAAGAAGCCCATGTACCTACTGATGGCAAGCGTG
TCATTGTTGTGTTTCACTGCGAGTTTTCTCTGAGAGAGGTCCCGCATGTGCCGATGTGAGAGAGAGAGATC
GCCTGGGTAATGAATACCCAACTCCACTACCCTGAGCTGTATGTCCTGAAGGGGGGATACAAGGAGTTCTTTA
TGAAATGCCAGTCTTACTGTGAGCCCCCTAGCTACCGGCCCATGCACCACGAGGACTTTAAAGAAGACCTGAAGA
AGTTCCGCACCAAGAGCCGGACCTGGGCAGGGGAGAAGAGCAAGAGGGAGATGTACAGTCGTCTGAAGAAGCTCT
GAGGGCGGCAGGACCAGCCAGCAGCAGCCCAAGCTTCCCTCCATCCCCCTTACCCTCTTTGCTGCAGAGAACT
TAAGCAAAGGGGACAGCTGTGTGACATTTGGAGAGGGGGCCTGGGACTTCCATGCCTTAAACCTACCTCCCACAC
TCCCAAGGTTGGAGCCAGGGCATCTTGCTGGCTACGCCCTTCTGTCCCTGTTAGACGTCCTCCGTCCATATCA
GAACTGTGCCACAATGCAGTTCTGAGCACCGTGTCAAGCTGCTCTGAGCCACAGTGGGATGAACCAGCCGGGGCC
TTATCGGGCTCCAGCCATCTCATGAGGGGAGAGGAGACGGAGGGGAGTAGAGAAGTTACACAGAAATGCTGCTGG
CCAAATAGCAAAGA

1210/6881
FIGURE 1128

GAATTCCGGCCATGAAAGACCCAAAGGAATGGCCACTCCCTGGGGCGGTGGTCACTGGTGCTCCTGCTGCTGGGCC
TGGTGATGCCTCTGGCCATCATTGCCCAGGTCCTCAGCTACAAGGAAGCTGTCTTCGTGCTATAGATGGCATCA
ACCAGCGGTCTCTGGATGCTAACCTCTACCGCCTCCTGGACCTGGACCCCAGGCCCACGATGGATGGGGACCCAG
ACACGCCAAAGCCTGTGAGCTTCACAGTGAAGGAGACAGTGTGCCCCAGGACGACACAGCAGTCACCAGAGGATT
GTGACTTCAAGAAGGACGGGCTGGTGAAGCGGTGTATGGGGACAGTGACCCTCAACCAGGCCAGGGGCTCCTTTG
ACATCAGTTGTGATAAGGATAACAAGAGATTTGCCCTGCTGGGTGATTTCTCCGGAAATCTAAAGAGAAGATTG
GCAAAGAGTTTAAAAGAATTGTCCAGAGAATCAAGGATTTTTTGCGGAATCTTGTACCCAGGACAGAGTCCTTAGT
GTGTGCCCTACCCTGGCTCAGGCTTCTGGGCTCTGAGAAATAAACTATGAGAGCAATTTCAAAAAAAAAAAAAA
AAAAAACCGGAATTC

1211/6881
FIGURE 1129

MKTQRNGHSLGRWSLVLLLLGLVMPLAIIAQVLSYKEAVLRAIDGINQRSSDANLYRLLDLDPRPTMDGDPDTPK
PVSFTVKETVCPRTTQQSPEDCDFKKDGLVKRCMGTVTLNQARGSFDISCDKNKRFALLGDFFRKSKEKIGKEF
KRIVQRIKDFLRNLVPTES

1212/6881
FIGURE 1130

CGTGCGTGCGCGCGCAGATGTGGGCCCCGCGGGAGCAGCTACTGGGCTGGACTGCGGAAGCTCTGCCTGCCAAGG
ATTCTGCCTGGCCCTGGGAAGAGAAGCCTAGATATCTGGTTCCAGTGGCAGATGGGGCACTGGCCAGAGGGGTTA
GGAGGATTTGGACTCTCCTTGGGAGTCGCTGTGATACGGCCTTCAATTATAGTTGTCTTTCCCTTCTTGGATTTC
ACCACTTCCCTGAAACCACGAGCTGGAAGCTGAGACCAGCTGGTCACTGCTGGGCCTGCTAGGAGCCCACACGGA
AGCTGCCCACAGCCAGACACCAGAGCCTCAAAGGCCGCCATCTTGAAAAACCAACCCTGACCTCCACAATGATTG
ATTTTCAAATGTTGAACCAGCTTTGCAGAACTATAATAAACCCAAGTGTGATACCCTGTCTCAAGTATTGTGGTG
ATCAAATAGGACCAGTGACTTTCGAGGATGTGGCTGTGCTTTTCACTGAGGCAGAGTGGAAGAGACTGAGCCTTG
AGCAGAGGAACCTATACAAAGAAGTGATGCTGGAAAATCTCAGGAATCTGGTCTCATTGGAATCAAAGCCAGAAG
TCCATACCTGCCCTTCTTGCCCTCTGGCCTTTGGCAGTCAGCAGTTCCCTCAGCCAAGATGAGCTACACAATCATC
CTATTCAGGTTTCCATGCAGGAAATCAACTCCACCCAGGAAATCCCTGCCCAGAGGATCAGCCACAGTCACAAC
ATCCTTCTGATAAAATCACAGGGGGGCTGAAGCAGAAGATCAACGAGTGGAAGGAGGCGTCAGACCCTTGTTTT
GGAGTACAAATGAAAGGGGGGCTTTAGTGGGTTTCTCTAGCCTGTTCCAGAGACCACCAATAAGCTCTTGGGGAG
GCAACAGAATATTAGAGATACAGCTCAGTCCAGCCCAGAATGCAAGCTCTGAGGAAGTAGACAGAATTTCCAAGA
GGGCAGAAACCCAGGGTTTGGAGCAGTCACGTTTGGGGAGTGTGCACTAGCTTTTAACCAGAAGTCAAACCTGT
TCAGACAGAAGGCAGTCACAGCAGAAAAATCTTCAGACAAAAGGCAGTCACAGGTGTGCAGGGAGTGTGGGCGAG
GCTTTAGCAGGAAGTCACAGCTCATCATACACCAGAGGACACACACAGGAGAAAAGCCTTATGTCTGCGGAGAGT
GTGGGCGAGGCTTTATAGTTGAGTCAGTCCCGCAACCACCTGAGTACACACTCCGGGGAGAAACCTTATGTGT
GCAGCCATTGTGGGCGAGGCTTTAGCTGCAAGCCATACCTCATCAGACATCAGAGGACACACACAAGGGAGAAAT
CGTTTATGTGCACAGTGTGTGGGCGAGGCTTTCGTGAAAAGTCAGAGCTCATTAAAGCACCAGAGGTGTCAAGTGA
CGGTCCCCCTGGAGGAATGGTCTTTGCATCTGACTACTTCCCTCTGCAACTGTGTCTTCCATTAGCTTCCATGA
CACTCTCCTGCTTTATTTTTTCTACATCTCTAGCCTTTGCTGTTTCTCTCCTACCCACCTTTAGATTTTACT
CAGAGTTCAGTCTCCAGCCCTACAATCTGAGGGACACCTTTACCAGGTCCCCTTCCTAACCTCCAGTCCCCAAAT
CCAAGATTCTTTAACACACTCTAAAAGTTCTTCAGACTCAGGACTTAAACATAGCCACGCCACCTTGGCCTTCA
ATGACAGGGATCTAGCAATGCTGCATCATCAGCCTTCCAATACCAGGTTTAAGGGTATTTTAAACACAGCTCCTC
TTAAATCCTCCAATCTCAGTACCCAGTGTTTTAGCCATGCTCGGGTGGCTAAATTACATCCAGGAATGGTGCCAG
GGCCTTTAGCCATTTGTCTCTCCTCACACTCCAGGGCCATATGGCCCAGGTTCTGACAGTTTGCCTTACTCCCT
TGGGCTGGGGCTAGCCCTACCTGATACCCTGTGTCAATGAGTGTACCTTGGAGAGCTATCCACTCAGGCCCCAGT
GCCTCTATTTGCTAAGGGACTCTGCCACAGAAAAGAAGGGAGAGATGTTTCATGTAACTCAAATACTTAGGCT
TGGTTTTGATGCTAGAGAGGAAAAAGGACTTGGAGAGAGAGAAGGAATGGCTGGTCCAGAGGCTTTTGTCCACTC
CCTCTCACTGGAAGTGTTGATCTCCAGGGAATCCCCAAGGTTAGCCTGCTTAGGGGAAGGGCTAGGGGTACCTG
GAATGTAGGATCTCCCCATGCCTGGCCTACCACCCTAATGTGTCTGGAATTGGTGGGTTCTTGGTCTTGCTGAC
TTCAAGAAATGAAGCCGTGGACCCTCAGGTGAGTGTTACAATTCTTAAA

1213/6881
FIGURE 1131

CAGCGTGCCTGCCAGTGTAGAGCCGGTGGAGCAGCTGGGCTCGGCGCTGAGGTTTCGCCCTGGCTACAACGACCC
CATGTCAGGGTTCCGAGCGACCTTGGCCGTTGGCCTGACCATCTTTTGIGCTGTCTGTGTCGTCACATATCATCTG
CTTACCTGCTCCTGCTGCTGCTGCTTTACAAGACGTGCCGCCGACCACGTCCCTCCAAGTGTGCCGCCCAGCTACC
CTGGACCAAGCTACCAGGGCTACCACACCATGCCGCCTCAGCCAGGGATGCCAGCAGCACCCCTACCCAATGCAGT
ACCCACCACCTTACCAGCCCAGCCCATGGGCCCCACCGCCTACCACGAGACCCCTGGCTGGAGGAGCAGCCGCGC
CCTACCCCGCCAGCCAGCCTCCTTACAACCCGGCCTACATGGATGCCCCGAAGGCGGCCCTCTGAGCATTCCCTG
GCCCTCTCTGGCTGCCACTTGTTATGTTGTGTGTGTGTGCGTGAGTGGTGTGCAGGCGCGGTTCCCTACGCCCCATG
TGTGCTGTGTGTGTGTCCAGGCACGGTTCCCTACGCCCCATGTGTGCTGTGTGTGTGCTGCTGTATATGTGGCTTC
CTCTGATGCTGACAAGGTGGGGAACAATCCTTGCCAGAGTGGGCTGGGACCAGACTTTGTTCTCTTCCTCACCTG
AAATTATGCTTCCCTAAAATCTCAAGCCAACTCAAAGAATGGGGTGGTGGGGGGCACCCCTGTGAGGTGGCCCCCTG
AGAGGTGGGGGCTCTCCAGGGCACATCTGGAGTTCTTCTCCAGCTTACCCTAGGGTGACCAAGTAGGGCCTGTC
ACACCAGGGTGGCGCAGCTTCTGTGTGATGCAGATGTGTCTGGTTTCGGCAGCGTAGCCAGCTGCTGCTTGAG
GCCATGGCTCGTCCCGGAGTTGGGGGTACCCGTTGCAGAGCCAGGGACATGATGCAGGCGAAGCTTGGGATCTG
GCCAAGTTGGACTTTGATCCTTTGGGCAGATGTCCCATTGTCCCTGGAGCCTGTGATGCCTGTTGGGGATCAGG
CAGCCTCCTGATGCCAGAACACCTCAGGCAGAGCCCTACTCAGCTGTACCTGTCTGCCTGGAETGTCCCCTGTCC
CCGCATCTCCCCTGGGACCAGCTGGAGGGCCACATGCACACACAGCCTAGCTGCCCCCAGGGAGCTCTGCTGCCC
TTGCTGGCCCTGCCCTTCCCACAGGTGAGCAGGGCTCCTGTCCACCAGCACACTCAGTTCTCTTCCCTGCAGTGT
TTTCATTTTATTTTAGCCAAACATTTTGCTGTTTTCTGTTTCAAACATGATAGTTGATATGAGACTGAAACCCC
TGGGTTGTGGAGGGAATTTGGCTCAGAGATGGACAACCTGGCAACTGTGAGTCCCTGCTTCCCGACACCAGCCTC
ATGGAATATGCAACAACCTCCTGTACCCAGTCCACGGTGTTCTGGCAGCAGGGACACCTGGGCCAATGGGCCATC
TGGACCAAAGGTGGGGTGTGGGGCCCTGGATGGCAGCTCTGGCCCAGACATGAATACCTCGTGTTCCTCCTCCCT
CTATTACTGTTTACCAGAGCTGTCTTAGCTCAAATCTGTGTGTTTCTGAGTCTAGGGTCTGTACACTTGTTTA
TAATAAATGCAATCGTTTGG

1214/6881
FIGURE 1132A

AGCGAACCATCGGGGCGGCCGGGAGCCATGTTGGAGCGGCGGGAGGCGGCAGCAGCGTCGGGGATGCTGTGGTGG
GGGCGGAAAAAGCCAGGGGCCGCACGCCGAGGGGGCTCCGGCCGCGGAGTAGATGGTGCCAGAGGGCGGGCGGGG
TGCGGAGAGACAGGCGGAGGGGCGGGGCCCCGGGGCGGCGGCAGGGGCCCGGGAGGGGGCCCCAGCGGCGGGGGC
AGCCCAAGGCCCGGACCGGGGCGGGGGCGGTGGAGGCCGTGCAGGGAGGCGGGAGATGATGGCGAGGCGGGCCGC
CGTGGCGGGGCTCGGGGAACGGTGCACCCCCATACTCCTGCTCCTTCTCCTCTCTTTGTTCCCCCTCAGCCAGG
AGGAGCTGGGGGGCGGTGGGCACCAGGGCTGGGACCCAGGCTTAGCTGCCACTACGGGGCCAAGGGCGCATATCG
GTGGCGGAGCCTTAGCTCTTTGTCCGAGTCTTCCGGGGTCCGGGAGGATGGGGGGCCTGGCCTGGGGGTACAGGG
AGCCTATCTTCGTGGGGCTCCGAGGGAGAAGGCAAAGCGCCCGGAATAGTCGAGGGCCCCCTGAGCAGCCGAATG
AGGAGCTGGGGATTGAACACGGCGTCCAGCCATTGGGCAGCCGCGAACGAGAGACAGGACAGGGACCAGGGTCTG
TGTATACTGGCGCCAGAGGTCTCCTCTTGGCGGGCGGACAGGACCTTTGCAAAGAGGTAGTCTGTACACAGGGG
CTCTGTCTCAGGGTCCCCGGGCTCGGGGAACAGCTCGCCCTCCCTTCAGACTTTTTGATTCCGGCACCACGGTC
CCAAGCCGGTGTCTCCAGCGGAACGCTGGGACAGGCTCCCGCAAAGAGTGGGCACCGCGCGCTGCTGTGGGG
AATTATGGGCAACAGGGAGCAAGGGTCAGGGCGAGAGAGCCACGACATCCGGAGCAGAAAGGACAGCCCCCGGC
GGAACTGTCTTCCAGGGGCTCGGGATCTGGCCCCGAGCTGGATTTCAGCACCACGCACGGCGAGGACAGCTCCTG
CATCAGGTTTCAGCACCCTCGAGTCTCGGACAGCTCCCGAGCCGGCGCCCAAGCGCATGCGCTCCCGGGGTCTCT
TCCGCTGCCGCTTCTTCCCGCAGCGCCCCGGGCGCGTCCCCCGGGACTCCCGGCCCGTCTGAAGCCAGGAAAG
TAACCTCGGCGAACCGGGCAGCCTTTCGTGCGCGCGCAAACCGCCACCCGCACTTCCGCAGTACAACTACCAGA
CGCTGGTGCCGGAATGAGGCAGCAGGCACCGCGGTGTACTACGCTGGTGTGCTCAGGACCCGGACCGCGCGAGG
CCGGGCGCCTAGTCTACTCGCTGGCGGCACTCATGAACAGCCGCTCGCTGGAGCTGTTCAGCATCGACCCGAGAG
GCGGCTTATCCGTACGGCGGCAGCTCTGGACCGGAGAGCATGGAGCGTCACTACCTGCGTGTGACCGCGCAGG
ACCACGGGTGCGCGCCCTCTCGGCCACCACGATGGTGGCCGTGACAGTAGCCGACCGCAACGACCACTCGCCGG
TTTTTGAGCAAGCGCAGTACCGGGAGACCCTTCGCGAGAATGTGGAGGAGGGCTACCCTATCTGCGAGCTGCGTG
CCACTGACGGCGACGCGCCCCCAACGCCAACCTGCGCTACCGCTTCGTGGGGCCGCGAGCTGCGCGCGCTGCAG
CTGCCGCCGCTTCGAGATTGATCCACGCTCCGGCCTCATCAGCACCAGCGCGCGAGTGGACCGCGAGCACATGG
AAAGCTATGAGCTGGTGGTGAAGCCAGCGACCAGGGCCAGGAACCCGGGCGCGCTCGGCCACTGTGCGCGTAC
ACATAACTGTGCTAGACGAGAACGACAATGCTCCTCAGTTCAGCGAGAAGCGCTACGTGGCGCAGGTGCGCGAGG
ATGTGCGCCCCACACAGTCGTGCTGCGCGTACGGCCACTGACCGGGACAAGGACGCCAACGGATTGGTGCAT
ACAACATCATCAGTGGAATAGCCGTGGACACTTTGCCATCGACAGCCTCACTGGCGAGATCCAGGTGGTGGCAC
CTCTGGACTTCGAGGCGAGAGAGAGTATGCCCTTGGCATCAGGGCGCAGGATGCTGGCCGGCCACCGCTGTCCA
ACAACACGGGCTGGCCAGCATCCAGGTGGTGGACATCAATGACCACATTCTATTTTTGTGACAGCCCTTCC
AAGTTTCTGTCTTGGAAAATGCTCCCTTGGGTCACTCAGTCATCCACATTAGGCAGTCGATGCAGACCATGGGG
AGAATGCCAGATTGGAGTACTCCCTAAGTGGTGTGGCACCTGATACTCCTTTTGTGATAAACAGCGCCACTGGCT
GGGTCTCTGTGAGTGGTCCCTGGACCGTGAGTCTGTGGAGCATTACTTCTTTGGTGTGGAGGCTCGAGACCATG
GCTACCCCCACTCTCTGCCTCAGCCAGTGTACCGTGACTGTGCTGGACGTTAATGACAATCGGCCTGAGTTCA
CAATGAAGGAGTACCACCTACGACTGAATGAGGATGCAGCTGTGGGCACAGTGTGGTCAGCGTGACCGCAGTAG
ACCGTGATGCCAACAGTGCCATCAGCTACCAGATCACAGGCGGCAACACCCGGAATCGCTTTGCCATCAGCACCC
AGGGGGGTGTGGGTCTGGTGACTCTGGCTCTGCCACTGGACTACAAGCAGGAACGCTACTTCAAGCTGGTACTAA
CTGCATCTGACCGTGCCCTTCATGATCACTGCTATGTGCACATCAACATCACAGATGCCAACACTCATCGGCCGG
TCTTTCAAAGTGCCCACTACTCAGTGAGTGTGAATGAAGATCGGCCAATGGGTAGCACCATAGTGGTCATCAGTG
CCTCTGATGATGACGTGGGTGAGAATGCTCGTATCACCTATCTCCTGGAGGACAACCTGCCCCAGTTCGGCAITG
ATGCAGACTCAGGAGCCATTACATTACAGGCCCCATTAGACTATGAGGACCAGGTGACCTACACCTGGCTATCA
CAGCTCGGGACAATGGCATCCACAGAAGGCAGACACTACTTATGTGGAGGTGATGGTCAATGACGTGAATGACA
ATGTCCACAATTTGTGGCCTCCCACTATACAGGGCTGGTCTCTGAGGATGCCCCACCTTTACCAGTGTCTTGC
AGATCTCAGCCACTGACCGGGATGCTCATGCCAATGGCCGGGTCCAGTACACTTCCAGAATGGTGAAGATGGGG
ATGGAGATTTTACCATTGAGCCCACCTCTGAATTTGTCGTACAGTAAGGCGGCTAGACCGGGAGGCAGTATCAG
TGTATGAGTTGACTGCCTACGCAGTGGACAGAGGTGTGCCCCACTCCGGACTCCAGTCAGTATCCAGGTGATGG
TGCAGGATGTGAACGACAATGCACCTGTCTCCAGCTGAGGAGTTTGAGGTGCGGGTGAAAGAGAATAGCATTG
TGGGCTCAGTGGTGGCCAGATCACTGCAGTGGACCTGACGAAGGCCCAATGCCCATATAATGTACCAGATCG

1215/6881
FIGURE 1132B

TGGAGGGGAACATCCCTGAGCTGTTCCAAATGGACATCTTCTCTGGAGAACTGACGGCACTCATTGACCTAGACT
ATGAGGCTCGCCAAGAATATGTGATTGTGGTGCAGGCCACATCTGCTCCTTTGGTCAGCCGGGCCACTGTGCACG
TCCGCCTGGTTGACCAGAAATGACAACAGCCCTGTGCTCAACAACCTTCCAGATCCTCTTCAACAACATGTATCCA
ACCGTTTCAGACACCTTCCCGTCGGGCATTATTGGGCGCATCCAGCTTATGACCCCGATGTCTCCGACCACCTCT
TCTACTCCTTTGAGCGTGGCAATGAGCTGCAGCTGCTGGTAGTCAACCAGACCAGTGGGGAGCTGCGACTCAGCC
GAAAGCTAGACAATAACCGCCCACTGGTGGCCTCCATGTTGGTGAAGTGTACAGATGGCCTGCACAGCGTGACGG
CGCAGTGTGTGCTGCGCGTGGTCATCATCACGGAGGAGTTGCTGGCCAACAGCCTGACCGTGCGCCTTGAGAACA
TGTGGCAGGAGCGCTTCCGTGTACCGCTGCTGGGCCGCTTCCCTGAGGGCGTGGCTGCGGTGCTCGCTACGCCCCG
CTGAGGACGTCTTCATCTTCAACATCCAGAACGACACAGACGTAGGGGGCACCCTGCTCAATGTGAGTTTCTCGG
CGCTAGCTCCACGTGGGGCCGGGGCGGGCGCTGCAGGGCCCTGGTTTCAGCTCCGAGGAGCTGCAGGAGCAGTTGT
ACGTGCGCGGGCGGGCGCTGGCGGCTCGCTCCCTGCTCGACGTACTGCCCTTCGACGACAACGTGTGCCCTGCGAG
AGCCCTGTGAGAACTACATGAAATGCGTGTCCGTGCTCCGCTTTGACTCGTCCGCGCCCTTCCCTGGCCTCGGCCT
CCACGCTGTTCCGACCCATCCAGCCCATCGCTGGCCTGCGCTGCCGTGCCCGCCCGGATTACGGGAGACTTTT
GCGAGACCGAGCTCGACCTCTGCTACTCCAACCCATGTGCAACGGCGGAGCCTGCGCGGGCGCGAGGGAGGCT
ACACGTGCGTCTGCGCGCCGCGCTTACCGGAGAGGAGTGCAGAGCTGGACACCGAGGCCGGCCGCTGCGTGCCGG
GCGTCTGCCGCAACGGGGGCACCTGCACCGACGCGCCCAACGGCGGCTTTGCTGCCAGTGCCCGGCAGGCGGGC
CCTTCGAGGGCCCGCGCTGCGAGGTGGCTGCGCGCTCCTTCCCGCCAGTTTCGTTTCGTCATGTTTCGCGGCTGC
GGCAGCGATTCCACCTTACGCTGTCCCTCTCGTTTCGCGACAGTGCAGCAGAGCGGGCTGCTCTTCTACAACGGGC
GCCTGAACGAGAAGCAGACTTCCCTGGCCCTGGAACCTGCTGGCTGGCCAAGTGGCGCTCACATATCCACGGGTG
AATCCAACACCGTGGTCAGCCCCACAGTTCCAGGGGGCTTGAGTGACGGGCAATGGCATAAGTGCATCTGAGAT
ACTACAACAAGCCCCGACAGATGCCCTAGGGGGTGACAGGGGCCCTCCAAGGACAAGGTGGCTGTGCTAAGCG
TGGATGATTGTGATGTGGCCGTGGCTCTGCAGTTTGGTGTGAGATTGGCAACTACTCATGCGCGGCTGCTGGTG
TGCAACAAGCTCCAAGAAGTCCCTGGACCTGACGGGCCCTCTTCTTCTGGGAGGTGTCCCAACCTCCCCGAGA
ACTTCCCCGTATCCCATAGGACTTCACTGGCTGTATGCGGGACCTGCACATTGATGGCCCGGAGTGGACATGG
CGGCTTTTGTGCAATAATGGCACCATGGCAGGCTGCCAAGCCAAGCTACACTTTTGTGACTCAGGCCCTGCA
AGAACAGTGGCTTCTGCTCGGAGCGCTGGGGCAGCTTCACTGCGACTGCCCTGTGGGCTTCGGCGGCAAGACT
GTCAGCTTACTATGGCCCATCCCCACCATTTCCGTGGCAACGGCACACTGAGCTGGAACCTTGGAAAGTGACATGG
CTGTGTCTGTGCCATGGTACCTGGGGCTGGCATTTCGGACACGGGCAACGCAGGGGGTCTGATGCAAGTGACAGG
CTGGGCCACACAGCAGCTCCTTTGCCAGCTAGATCGGGGGTTACTGTCTGTGACAGTGACAGGGGCTCGGGCC
GTGCTTCCATCTCCTTCTGGACCAGGTGACTGTCACTGATGGCCGGTGGCACGATCTGCGGCTGGAGTTGCAGG
AGGAACAGGTGGCCGGCGGGGCCACCATGTCTTATGGTCTCACTGGACTTTAGCCTCTTCCAGGACACCATGG
CGGTGGGGAGTGAGCTGCAGGGCCTGAAGGTAAAGCAGCTCCACGTGGGAGGCCTGCCCGCCGAGTGCAGAGG
AGGCTCCTCAGGCTGTGGTTGGCTGCATCCAGGGGTGTGGCTCGGCTCCACACCTCTGGCTCCCCGGCCCTGC
TACCCCCAGCCACCGAGTGAATGCGGAGCCTGGCTGTGTTGTGACCAACGCCCTGTGCCCTCTGGGCCCTGCCAC
CTCAGCAGACTGCCGGGACCTCTGGCAGACCTTTTCTTGACCTGCCAGCCAGGTTACTACGGCCAGGCTGTG
TGGATGCCTGCCCTCTGAACCCCTGTCAGAACCAGGGATCATGCCGGCACCTGCCAGGAGCCCCCATGGCTATA
CCTGTGACTGTGTGGGTGGCTATTTCCGGGCACCACTGTGAGCACAGGATGGACCAGCAGTGGCCACGGGGCTGGT
GGGGGAGCCCAACCTGTGGCCCTGCAACTGTGATGTTCAAAAGGTTTGTATCCCAACTGCAACAAGACAAATG
GGCAGTGTCACTGCAAGGAGTTCCACTACCGACCGGGGCGAGTACTCTTGCCCTCCCATGTGACTGCTACCCCTG
TGGGCTCCACCTCGCGCTCATGTGCACCCACAGCGGGCAGTGCCCTGTGCGCCAGGAGCCCTTGGCCGCCAGT
GCAACAGCTGTGACAGTCCCTTCGAGAGGTGACAGCCAGCGGCTGCCCGGTGCTCTATGATGCCTGCCCTAAGT
CCCTGAGATCTGGTGTGTGGTGGCCCCAGACAAAGTTTGGCGTCTGGCCACAGTGCCCTGTCCCCGGGGGGCCC
TGGGTGCTGCTGTGCGGCTGTGTGATGAGGCCAGGGTTGGCTGGAGCCGACCTCTTCAACTGTACCTCCCCCTG
CCTTCGAGAGCTCAGTCTGCTGCTGGATGGCCTAGAGCTGAACAAGACGGCACTGGATACCATGGAGGCCAAGA
AGCTGGCTCAGCGGCTACGGGAGGTGACTGGCCACACTGACCACTATTTTAGCCAAGATGTTTCGAGTCACTGCCC
GCCTGCTGGCCACCTGCTGGCCTTCGAGAGCCATCAGCAGGGCTTCGGGCTGACAGCCACAGGATGCCCACT
TCAATGAGAATCTGCTGTGGGCCGCTCTGCACTGCTTGCCCCAGAGACAGGGGACTTGTGGGCGGCGCTGGGGC
AGCGGGCCCCCTGGGGGCTCCCCAGGCAGCGCGGGACTGGTGAGGCACCTGGAGGAGTATGCAGCCACACTCGCAA

1216/6881
FIGURE 1132C

GGAATATGGAACACATACCTGAATCCCATGGGGCTGGTGACGCCTAATATCATGCTCAGCATTGACCGCATGG
AGCACCCCAGTTCTCCCCGGGGGGCCCGTCGCTACCCCTCGCTACCATAGCAACCTCTTTGAGGCCAGGATGCCT
GGGATCCTCAGACCCATGTGCTGCTGCCTTCCAGTCCCCACGGCCATCCCCATCTGAAGTTCTGCCCACAAGCA
GCAGCATAGAAAACCTCCACCACCTCAAGTGTGGTCCCCCACCAGCCCCGCCAGAGCCAGAGCCTGGGATCTCCA
TTATCATTCTCCTCGTTTACCGCACCTTAGGGGGACTGCTCCCTGCCCAGTTCCAGGCAGAACGCCGAGGTGCCA
GGCTTCTCAGAACCCCGTCATGAACCTCCCGGTGGTCAGCGTGGCTGTGTTCCACGGACGCAACTTCCTAAGGG
GAATCCTGGAGTCCCCCATCAGCCTAGAGTTTCGCCTGCTACAGACAGCGAATCGGAGCAAGGCGATCTGTGTGC
AGTGGGACCCACCTGGCCTGGCGGAGCAGCATGGTGTGTGGACAGCACGGGACTGCGAGCTGGTGCACAGGAATG
GGTCCCACGCACGGGTGTGCTGCAGCCGGACAGGGACCTTTGGGGTCTCATGGATGCCTCTCCCCGTGAGAGGC
TGGAGGGCGACCTGGAGCTGCTGGCTGTGTTACCCACGTGGTCTGGCTGTGCTGTGGCTGCGCTGGTGTGTA
CTGCAGCCATCCTGCTGAGCCTGCGCAGCCTCAAGTCCAATGTGCGTGGGATCCATGCCAATGTGGCAGCCGCCC
TGGGGGTGGCAGAGCTCCTCTTCTGCTGGGGATTACAGGACCCACAATCAGCTGGTGTGACTGCAGTGCCTCA
TCCTCCTGCACTACTTCTTCTCAGCACCTTCGCGTGGCTCTTCGTGCAGGGGCTGCACCTCTACCGCATGCAGG
TTGAGCCACGCAACGTGGACCGCGCGCCATGCCTTCTACCATGCCCTGGGCTGGGGCGTCCCTGCTGTGCTGC
TGGGCCTTGCTGTGGGCCTGGACCTGAGGGCTATGGGAACCTGACTTCTGCTGGATCTCAGTCCACGAGCCCC
TCATCTGGAGCTTTGCTGGCCCTGTTGTCTGGTCAATAGTGATGAACGGGACCATGTTCTCTCTCGCTGCCCGCA
CATCCTGCTCCACAGGGCAGAGGGAGGCCAAGAAGACCTCTGCACTGACCCCTTCGCAGCTCCTTCCTGCTGCTTC
TGCTGGTCACTGCTCCTGCTGCTCTTTGGGCTCCTGGCAGTCAACCACAGCATCCTAGCCTTCCACTACCTCCATG
CTGGACTCTGCGGCTCCAGGGCTGGCGGTGCTGCTGCTCTTCTGTGCTCTAAATGCAGATGCTCGGGCTGCCT
GGATGCCAGCCTGTCTGGGCAGGAAGGCAGCGCCTGAGGAGGCAAGGCCAGCACCTGGGCTGGGACCTGGGGCCT
ACAACAACACGGCTCTCTTTGAGGAGAGTGGCCTCATCCGCATCACTCTGGGCGCTCCACCGTCTCCTCTGTGA
GCAGTGGCCGCTCCGGCCGAGCCAGGACAGCCAGCGGGGCCAGCTACCTCAGGGACAATGTCTGTG
TTCGACATGGCTCAGCCGCTGACCACACTGACCACAGCCTCCAGGCTCATGCTGGCCCCACTGACCTGGACGTGG
CCATGTTCCATCGAGATGCTGGCGCAGACTCCGACTCTGACAGTGACCTGTCTTGGAGGAGGAGAGGAGTCTCT
CCATTCCATCTTCAGAAAGCGAGGACAATGGCCGGACGCGGGGGCGCTTCCAACGGCCACTCTGCCAGCAGCCC
AGAGTGAGAGGCTCCTCACCCACCCCAAAGATGTGGATGGCAATGACCTCCTGTCTACTGGCCAGCCCTGGGG
AGTGGCAGGACAGCCCCCTGTGCTCTGCAGACTTGGGGCTCTGAAAGGCGCCTGGGGCTGGACACCAGCAAGGATG
CAGCTAACAACAACAGCCAGACCCGGCCCTGACCAGTGGGGATGAGACTTCTCTGGGCGGGCCAGCGCCAGA
GGAAAGGCATCCTGAAGAACCGGTTGCAATACCCACTGGTGCCACAGACCCGAGGTGCCCTGAGCTGTCTGGT
GCCGTGCAGCCACCTTGGGCCACCGTGCACTGCCAGCTGCCTCTTACGGTTCGATCTATGCTGGCGGGGACGG
GCAGCCTTTCAGAGCCAGCCAGCCGCTACTCTTCTAGAGAACAGCTGGACCTGCTCCTCCGCGGCAACTGAGCC
GTGAGCGACTAGAGGAAGCCCTGCCCTGTCTACGTCCCCTGAGCCGGCCAGGGTCCAGGAATGCATGGATG
CTGCACCAGGCCGACTGGAGCCCAAAGATCGGGGCAGCACCTGCCACGGAGGCAGCCACCTCGGGACTACCTG
GCGCCATGGCTGGCCGCTTCGGGTACGGGATGCGCTCGACTTAGGGGCACCTCGAGAGTGGTTGAGCACGCTGC
CTCCGCCCCGCGCACCCGGGACCTTGACCCACAGCCCCACCTTGCCCTGTCTCCCCAGCGGCAACTCTCAA
GGGACCCCCCTCTTGCCATCCCGGCCGCTGGACTCTGTCTAGGAGCTCGAAGTCTCGGGAGCAGCTGGACCAGG
TGCTTAGCCGGCACCCCTCACGAGAAGCCCTTGGGCCACTCCCGCAGCTGCTCAGAGCTAGGGAGGACTCGGTCA
CCCTCTCCTCTGTGCAATCTTCAAGCACCCCTTGGGCCCTCACACCCTGCCACACCTTCTGCCACAGCCTCTG
TGCTTGGGCCCTCCACGCCACGTTCTGCCACGTCTCACAGCATCTCGAGCTGTGCGCAGACTCAGAAGTCCCCA
GAAGTGAGGGTCACTCTGAGGGGATGACGGCGTGGACGAGGAACAGCTGAGGGCGACAGAGGATCTAGGCTAAC
AGGAGAGACTCCAGGAGTGGGGGCAGATCCCAAGGCAGCCTCCTGCTCCCCAGTGGTGGGTGCCCCAGCTCTACC
TGGTGTGGCAGGGCTGAGGCTCCATGTGCATCTGTGAGCATGCGTGTGACAGGTGCAGAGACGGGGGACTGGAGG
GAGACTTTTATACGTTTGTACCTTTGTAACCAGAGAGATGCTTATGTTATTTTTCAGCTTTTCTGTCTCCTGGG
GGGTTTGAAGCTGGGCTGGGAGGGGGAGGAGATAGAGGAGAGATGAGTGTGACCCATTGGGGTCTGAGCA
AACCCTATGCTCATCTCTCTCTCTTCTGGGGTGGACTCAGATGGGTGGGACACATGCCTTCTCCCCCTATTC
CACCCCAAGTTGATCTGAGTATCGTCAGGGGCCCAAAGTACAGAATTGTTCTTTGCTTTTATTGAATGCTCCA
AAGGCCAACTTCTGGGGCTGGGGGTGGTCTTGAAACAGGGGTCTCTGACTTCTCATGGGGCTTGCTCAT

1217/6881
FIGURE 1132D

ACCGCCCCCTCCTGGTGGATGTGTGTGTTTATTATGTGGAGTCCCTGCCACTTACTGCCTTATGACCTAGGACTGA
TGCTGTGGGGTGCTGGTGGAGCAGCTGATGTCGTGTTTACAGAGCAAGGCTTCCCTGTCTCCCACGGGGAGGGGC
TCGGGCCCTCTAGTCAGACATTCCCTGCAGAGGGTCGGTGGAGGGGTCATTACCTGCCCCCTGCAGCAAGCAAAAGT
TGCTGTGGTGCCATTTGATTCCCTGACACTGCCCCCTGCTTGAATTGATTCCGAAGGGTAGGGTGGGAAGGTGA
GCAAAGGGAGCAGAAACAAGGGAATTCAAGACCCAGAATGTAGGTGCCACTGCCTCCTATGTTTACAGGATCCTC
CGTGGCCCTAGGCACCTGGGCTGCAGGAAGTGACTCCGTTCCACTCCTCCTTTATTCCCTTAAAAAGGGAAAAAT
GACTGTTACGACCCTGTTTACAAAACCTCTTACTTTTGCTATTTTGTCTGTGTCCAGAACTGAAGACTTTAAAAT
TTTGTTACTGTTTACAAGTCCAGATTCAAAAAATGTTTTTACTTTGTTTACAACCTCAAACTTTGAGTTTACAC
TTTGTTTACAGTAGATAATTTTTTTTCCTTTGTGTTTCCAAGTGAAAGGTAGGGAAAGTGGGAGAGGGACTTGGAGG
ACCCACCTGTGAGGACCCTGACCTGGCCATCTTGAGGGGTTTTCTAACCCCCAGGTCTCCAGGCCGAAGGTCAG
CCTTGAGTCCCGTTTAAACAGCAGATCCAGAAGACCTTGAGAGTAGGCGTCCTCTAACCACGGGGGAGAGTGGCTG
TGCAGGGCTGGGGGGTGGTCTGTGCAGACACCTCCTCACCCACCACCCCATGCATACTCTTGGGAAGCAGCTTCC
TGGGAGATTAGAAATTCTACTTCCCTGACTGGAGCTAAATCCCACCAGCCAGGACCCAACTCTCCTTACCGAGA
AGGACCCCAAGCTCTTGAAGGGCTGAGTGGCCTGCTGGGGGTGGGAGGGTGTCTTTACTATGTCTAGGTTTCGTA
GATGCCCCCTCTCTGGGGTTCCTCCTCCAGCCCAGCGGCCCTCTTTCCTGTCTGTGTAATTTGTTCCGTGAAGC
CGCGCTCTGTTTTGGGAATAAACTTCTATAGAAAACAAAA

1218/6881
FIGURE 1133

MMARRPPWRGLGERSTPILLLLLLSLFPLSQEELGGGGHQGWDPGLAATTGPRAHIGGGALALCPESGVRDGG
PGLGVREPIFVGLRGRRQSARNRSGPPEQPNEELGIEHGVQPLGSRERETGQGPSSVLYWRPEVSSCGRTGPLQR
GSLSPGALSSGVPGSGNSSPLPSDFLIRHHGPKPVSSQRNAGTGSRRKRVGTARCCGELWATGSKGQGERATTSGA
ERTAPRRNCLPGASGSGPELDSAPRTARTAPASGSAPRESRTAPEPAPKMRSRGLFRCRFLPQRPGRPPGLPA
RPEARVTSANRARFRRAANRHPQFPQYNYQTLVPENEAAGTAVLRVVAQDPDAGEAGRLVYSLAALMNSRSLEL
FSIDPQSGLIRTAALDRESMERHYLRVTAQDHGSPRLSATTMVAITVADRNDHSPVFEQAQYRETLRENVEEGY
PILQLRATDGDAPPNANLRYRFVGPAAARAAAAAFEIDPRSGLISTSGRVDREHMESYELVVEASDQGEFGR
SATVRVHITVLDENDNAPQFSEKRYVAQVREDVRPHTVVLVLTATDRDKDANGLVHYNIIISGNSRGHFAIDSLTG
ETQVVAPLDFEAEREYALRIRAQDAGRPPLSNNTGLASIQVVDINDHIPFVSTPFQVSVLENAPLGHSVIHQA
VDADHGENARLEYSLTGVPDTPFVINSATGWVSVSGPLDRESVEHYFFGVEARDHGSPLSASASVTVTVDVN
DNRPEFTMKEYHLRLNEDAAVGTSVSVTAVDORDANSAISYQITGGNTRNFAISTQGGVGLVTLALPLDYKQER
YFKLVLTASDRALHDHCYVHINITDANTHRPVFQSAHYSVSVNEDRPMGSTIVVISASDDVDGENARITYLLEDN
LPQFRIDADSGAITLQAPLDYEDQVYTLAITARDNGIPQKADTTYVEVMVNDVNDNAPQFVASHYTLGVSEDAP
PFTSVLQISATDRDAHANGRVQYTFQNGEDGDGDFTEIPTSGIVRTVRRLDREAVSVYELTAYAVDRGVPPRLTP
VSIQVMVDVNDNAPVFPAAEFVVRKENSIVGSVVAQITAVDPDEGPNAHIMYQIVEGNIPELFQMDIFSGLT
ALIDLDEYARQYVIVVQATSAPLVSRATVHVRLVDQNDNSPVLNNFQILFNMYVSNRSDTFPSGIIGRIPAYDP
DVSDDLFFYSFERGNEQLQLLVNQTSSELRLSRKLDNNRPLVASMLVTVDGLHSVTAQCVRVVIITEELLANSI
TVRLENMWQERFLSPLLGRFLEGVAVALATPAEDVFIQNQNDTDVGGTVLNVFSFALAPRGAGAGAAGPWFSS
ELQEQLYVRRALAAARSLDLVLPFDNDVCLREPCENYMKCVSVLRFDSSAPFLASASTLFRPIQPIAGLRRCRCP
GFTGDFCETELDLCYSNPCRNGGACARREGGYTCVCRPRFTGEDCELDTEAGRCVPGVCRNGGTCTDAPNGGFR
QCPAGGAFEGPRCEVAARSFPSSFVMFRGLRQRFHLLTSLSFATVQQSGLLFYNGRLNEKHDFLALELVAGQVR
LTYSTGESNTVVSPTVPGGLSDGQWHTVHLRYYNKPRTDALGGAQGPSKDKVAVLSVDDCDVAVALQFGAEIGNY
SCAAAGVQTSSKKSLLDTGLPLLGGVPLNLPENFPVSHKDFIGCMRDLHIDGRRVDMAAFVANNGTMAGCQAKLHF
CDSGPCKNSGFCSERWGSFSCDCPVFGGKDCQLTMAHPHHFRNGTLSWNFGSDMAVSVPWYLGALFRTRATQ
VLMQVQAGPHSTLLCQLDRGLLSVTVTRGSGRASHLLLDQVTVSDGRWHDRLLELQEEPGGRRGHVLMVSLDFS
LFQDTMAVGSELQGLKVQLHVGGPLPGSAAEAPQGLVGCIQGVWLGSTPSGSPALLPPSHRVNAEPGCVVTNAC
ASGPCPPHADCRDLWQTFSTCQPGYGPQCVDACLNFCQNGQSCRHLPGAPHGYTCDVGGYFGHHCEHRMDQ
QCPRGWWSPTCGPCNCDVHKGFDPNCNKTNGQCHKEFHRYRPGSDSCLPCDCYPVGSTSRSCAPHSGCPCRP
GALGRQCNSCDSFPFAEVTASGCRVLYDACPKSLRSGVWVPQTKFGLATVPCPRGALGAAVRLCDEAQGWLEPDL
FNCTSPAFRELSLLDGLLELNKALTDMEAKKLAQRLREVTGHTDHYFSQDVRVTARLLAHLAFESHQQFGLT
ATQDAHFENENLLWAGSALLAPETGDLWAALGQAPGGSPGSAGLVHRHLEEYAATLARNMELTYLNPMGLVTPNIM
LSIDRMEHPSSPRGARRYPRYHSNLFQDQAWDPHTHVLLPSQSPRPSPSEVLPTSSSIENSTTSSVPPPPAPE
PEPGISIIILLVYRTLGGLLPAQFQAERRGARLPQNPVMNSPVSVAVFHGRNFLRGILESPISEFRLLQTANR
SKAICVQWDPGLAEQHGVTARDCELVHRNGSHARCRCSTGTGVLMDASPRERLEGDLELLAVFTHVVAVS
VAALVLTAAILLSLRSLKSNVRGIHANVAAALGVAELFLGIGHRTNQLVCTAVAILLHYFFLSTFAWLFVQGL
HLYRMQVEPRNVDRGAMRFYHALGWGPVAVLLGLAVGLDPEGYGNPDFCWISVHEPLIWSFAGPVVLVIVMNGTM
FLLAARTSCSTGQREAKKTSALTLRSSFLLLLVASWLFGLLAVNHSILAFHYLHAGLCGLQGLAVLLFCVLN
ADARAAMWPAACLRKAAPPEARPAPGLPGAYNNALFEESGLIRITLGAIVSSSVSARSRTQDQDSQGRSY
LRDNLVLRHGSAADHTDHSIQAHAGPTDLDVAMFHRDAGADSDSDLSLEERSLSIPSSSEDNGRTRGRFQR
PLCRAAQSERLLTHPKDVGNDLLSYWPALGECEAAPCALQTWGSERRGLDTSKDAANNQPDPAITSGDETSL
GRAQRQRKGILKNRLQYPLVPQTRGAPELSWCRAATLGHRAVPAASYGRIYAGGGTGSLSQPASRYSSREQDLLL
LRRQLSRERLEEAPAVLRPLSRPGSQECMDAAPGRLEPKDRGSTLPRRQPPRDYPGAMAGRFGSRDALDLGAPR
EWLSTLPPPRRTDLDPPPLPLSPQRQLSRDPLPSRPLDSLRSNSREQLDQVPSRHPSSREALGPLQLLR
AREDSVSGPSHGPSTEQLDILSSILASFNSALSSVQSSSTPLGPHTTATPSATASVLGPSTPRSATSHSISELS
PDSEVPRSEGHS

1219/6881
FIGURE 1134

TACTGACTTTTACGACCAACTTGTGGTCCCAGGTAAGTTTCCACGCTGGTACTTTAGCCCTGGGCTCGAACCTGC
GGACACGCTGTGGCTGCAACTCCCCGCCCGCCAGACCTCAGTACGCAGCGCGGCTGGTGAGAAACATAATGCACT
CTGACTTCCACGCGTGGAATGGGGAGATGGACTGCACGGCGGGCGGACCTGCTCGGGCTGATGGACGGCAGGTGG
ACTGATGTGCGCAGGGACTGGCGGCAGCGCGGTGAGAGCCAGTCAGCCAAAGCCAGGCCAGCACAATAGACTGTC
CCGTTTCCCGCCAGGAGGCGGCCGAGCACCAACTGTACGGTACTGCGCCTGCGCCGCGACCGCCAACGCGCCCAG
TCTACGCTTGCGCGGCGCAACAGGGCCGACTGCAGCTGGAAGATGCGCGCGTCCGTGGTCTGTGCGGCCGCTACC
GCCGGGGCACAAGTGCTATTGCGCGCCCGCGCTCGCCGGCCCTGCTGCGGACGCCAGCCTTGCGGAGTACGGCA
ACCTTCGCTCAGCGCTCCAGTTCGTGCGCGAGACGCAGGTTAGCCTGCTGGACAACGGCCTGCGTGTGGCCTCC
GAGCAGTCCCTCAGCCCCACTTGCACGGTGGGAGTGTGGATTGATGTTGGCAGCCGTTTTGAGACTGAGAAGAAT
AATGGGGCAGGCTACTTTTTGGAGCATCTGGCTTTCAAGGGAACAAAGAATCGGCCTGGCAGTGCCTTGGAGAAG
GAGGTGGAGAGCATGGGGGCCCATCTTAATGCCTACAGCACCCGGGAGCACACAGCTTACTACATCAAGGCGCTG
TCCAAGGATCTGCCGAAAGCTGTGGAGCTCCTGGGTGACATTGTGCAGAACTGTAGTCTGGAAGACTCACAGATT
GAGAAGGAACGTGATGTGATCCTGCGGGAGATGCAGGAGAATGATGCATCTATGCGAGATGTGGTCTTTAACTAC
CTGCATGCCACAGCATTCCAGGGCACACCTCTAGCCCAGGCTGTGGAGGGGGCCAGTGAGAATGTCAGGAAGCTG
TCTCGTGCAGACTTGACCGAGTACCTCAGCACACATTACAAGGCCCTCGAATGGTGTGGCAGCAGCTGGAGGA
GTGGAGCACCAGCAACTGTTAGACCTCGCCCAGAAGCACCTCGGTGGCATCCCATGGACATATGCAGAGGACGCT
GTGCCCACCTTACTCCATGCCGCTTCACTGGCAGTGAGATCCGCCACCGTGATGATGCTCTACCTTTTGGCCAC
GTGGCCATTGCAGTAGAGGGTCCTGGCTGGGCCAGCCCGGACAGTGTGGCCTTGCAAGTGGCCAATGCCATCATC
GGCCACTATGACTGCACCTTATGGTGGTGGCGTGCACCTGTCCAGCCCACTGGCTTCAGGTGCTGTGGCCAACAAG
CTATGCCAGAGTTTCCAGACCTTCAGCATCTGCTATGCAGAGACGGGCTTGCTGGGTGCACACTTTGTCTGTGAC
CGAATGAAAATCGATGACATGATGTTGCTCCTGCAAGGGCAGTGATGCGCCTGTGTACCAGTGCCACGGAGAGT
GAGGTGGCCCGGGGCAAAACATCCTCAGAAATGCCCTGGTATCTCATCTAGATGGCACTACTCCTGTGTGTGAG
GACATCGGACGCAGCCTCCTGACCTATGGCCGCCGATCCCCCTGGCTGAATGGGAAAGCCGATTGCGGAGGTG
GATGCCAGTGTGGTACGTGAGATCTGCTCCAAGTACATCTATGACCAGTGCCAGCAGTGGCTGGATATGGCCCC
ATTGAGCAGCTCCCAGACTACAACCGATCCGTAGCGGCATGTTCTGGCTGCGCTTCTAGCGGGGAAGCCTATGT
AAGCAAGAGGGCAGGGCCGGGTTTGTGGTCCCCCCCCACCACAAACACAGCACTTCGGCTCCTCTAACCTGTG
CCACAGGTGACCACCAATAAAATCCTCTGCTGAGA

1220/6881
FIGURE 1135

MAASVVCRAATAGAQVLLRARRSPALLRTPALRSTATFAQALQFVPETQVSLLDNGLRVASEQSSQPTCTVGVWI
DVGSRFETEKNNAGYFLEHLAFKGTKNRPGSALEKEVESMG AHLNAYSTREHTAYYIKALSKDLPKAVELLGDI
VQNCSEDSQIEKERDVILREMQENDASMRDVVFNYLHATAFQGTPLAQAVEGPS ENVRKLSRADLTEYLSHYK
APRMVLAAGGVEHQQLDLAQKHLGGIPWTYAEDAVPTLTPCRFTGSEIRHRDDALPFAHVAIAVEGPGWASPD
SVALQVANAIIGHYDCTYGGGVHLSSPLASGAVANKLCQSFQTF SICYAETGLLGAHFVCDRMKIDDMFVLQGG
WMRLCTSATESEVARGKNILRNALVSHLDGTTTPVCEDIGRSLTYGRRIP LAEWESRIAEVDASVVREICSKYIY
DQCPAVAGYGPIEQLPDYNRIRSGMFWLRF

1221/6881

FIGURE 1136

TCCGACTCATCCCGGCCCCGGGATGGCGTCCCCACGGGAATTGACACAGAACCCCTGAAGAAGATCTGGATGCC
ATACAGCAATGGGCGGCCGCTCTGCACGCTTGCCAGCGCGGTGTGTGCATGACCAACTGCCCAACTCTCATTGT
CATGGTGGGCTGCCCGCCAGGGGCAAGACCTACATCTCCAAGAAGCTGACTCGATACTGAACTGGATTGGTGT
GCCCCACTCGGGAGTTCAATGTTGGCCAGTATCGCCGGGACGTGGTCAAGACCTACAAATCTTTGAATTTTTCT
CCCCGACAATGAAGAGGGCCTGAAAATCAGGAAGCAGTGTGCCCTGGCAGCCCTCCGTGACGTCCGGCGGTTCCT
TAGTGAGGAGGGGGACATGTGGCGGTTTTTGATGCCACAAACACCACCCGAGAACGGAGAGCGACCATCTTTAA
TTTTGGAGAACAGAATGGCTACAAGACCTTTTTTGTCGAGTCCATCTGTGTGGATCCTGAGGTCATAGCTGCCAA
CATCGTGCAAGTGAAACTGGGCAGCCCTGACTATGTCAACCGCGACAGTGATGAGGCTACGGAGGACTTCATGAG
GCGCATTGAGTGCTATGAGAACTCCTACGAGTCGCTAGATGAGGACCTGGATAGGGACCTGTCCTATATCAAGAT
CATGGATGTGGGCCAGAGCTACGTGGTGAACCGTGTGGCTGACCACATCCAGAGCCGCATCGTATATTACCTCAT
GAACATCCACGTGACCCCCGCTCCATCTACCTCTGCCGGCAGGGGAGAGCGAGCTCAACCTCAAGGGCCGGAT
TGGCGGGGACCCAGGACTGTCCCCTCGGGGCAGGGAGTTTGCCAAGAGTCTAGCCCAGTTCATCAGTGACCAAAA
TATCAAGGATCTGAAGGTCTGGACAAGCCAGATGAAGAGGACAATCCAGACGGCTGAGGCACTGGGTGTGCCATA
TGAACAGTGGAAGGTCTCAACGAGATCGATGCGGGCGTCTGTGAGGAAATGACCTACGAGGAAATTCAGGATAA
TTATCCACTGGAGTTGCGCCTGCGGGACCAAGGACAAGTACCGGTACCGGTACCCCTAAAGGGGAGTCTACGAGGA
CCTGGTCCAGAGACTGGAGCCTGTATCATGAGCTGGAGAGGCAAGAGAATGTGCTGGTTCATCTGCCACCAGGC
TGTGATGCGCTGCTGTGGCCTACTTCTCGACAAGGCAGCAGAACAGCTGCCCTACCTCAAGTGTCCGCTGCA
CACAGTCTGAAGCTGACTCCTGTGGCATATGGTTGTAAAGTGGAGTCCATATTCCTGAACGTGGCTGCTGTGAA
CACGCACCGGGACAGGCCTCAGAACGTGGACATCTCAAGACCTCCAGAGGAAGCCCTTGTACGGTGCCTGCTCA
CCAGTGACCATGTTTCATCCACTGTGACCACTAGGCAGGCACTGCTCTCTGCAGAGGGGGTCATTCCAGGCCCTCC
AGTGTGTGTGATAGTCACCATGCCATGCAGGGATATTCTTGAAGCCACACATGGCTGGCGGAACCCAGAGCCCCC
ACCCAGCCCACCTGGCTCTTTGTTGACAGTCGGCGACAAGGTTGTGCGTGGCTCCTGACCTGCTGCTAAGAGTC
ACTTGACCAGACTGCATCTGCATGGGCTGCGCGGAGGTTGCCAGCCCCAGTTTCTTCCGGCGCAGCTCTTAGGT
GTTCACTCTCGCCAGCTCAGTTGGCTTTGTGAAGTGTGAAACCTACAATGTGAAAGGAAAGTGCTTGTGTGAT
GTTCTACTGTGGCCCAGCTGCCAGCATGGACCTGGTGACTCTCCACAGGGCCTCTACCATCCTCTCTGTGGCC
ACTTCCTGAGCCAGAGGCCAGGTCTTCATGGGGCCCTGAGCTTCTGCTGCCTCTGGTGAGAGGGAGAGCCCTTCC
CATCCTTACCCACCAGGAAGTAGAGCCCCAACACAGCAGATGCTTCTGGGCAGCCACTGGCCAGGCCGTTGTA
TCCATGTACCCCTTAGTTGTGGGCATTCAAGAAAGCAATGCGCTTGCTTCAGCACATTGGGATGCACAGAAACGT
GAGGGCAGGGGGGAGTTGTGGTCCGCCCTCCCCAGTTGTGCATGTACCCGGCTACTTAGGTATGCTTAGGGGAG
CTGGTGGCCAGGGGTGCCCTTCAAGCCTGCTCTCACAGTGAAACCACTTCAAGACAGGGCAGGAAGTTACCTTC
CTGGTGCACACACCGAAGTGCTCGAGGGAGAGGCTGCCGCCCTCTCCCTTCCCTGGCTGTGGACACTGGCAG
CCAATGGGGAGGCGCCTCTCCCTGTTGCTGCCCGTGTCCACACAGGAATGTACACTGGTGGCAGAAACATGCA
TTTGCCATAAATAATTAGAAAC

1222/6881
FIGURE 1137

AGCAATGGCTGCCATCCGGAAGAACTGGTGATTGTTGGTGATGGAGCCTGTGGAAAGACATGCTTGCTCATAGT
CTTCAGCAAGGACCAGTTCCCAGAGGTGTATGTGCCACAGTGTGAGAACTATGTGGCAGATATCGAGGTGGA
TGGAAAGCAGGTAGAGTTGGCTTTGTGGGACACAGCTGGGCAGGAAGATTATGATCGCCTGAGGCCCTCTCCTA
CCCAGATACCGATGTTATACTGATGTGTTTTCCATCGACAGCCCTGATAGTTTAGAAAACATCCCAGAAAAGTG
GACCCCAAGTCAAGCATTCTGTCCCAACGTGCCCATCATCCTGGTTGGGAATAAGAAGGATCTTCGGAATGA
TGAGCACACAAGGCGGGAGCTAGCCAAGATGAAGCAGGAGCCGGTGAAACCTGAAGAAGGCAGAGATATGGCAAA
CAGGATTGGCGCTTTTGGGTACATGGAGTGTTTCAGCAAAGACCAAAGATGGAGTGAGAGAGGTTTTTGAAATGGC
TACGAGAGCTGCTCTGCAAGCTAGACGTGGGAAGAAAAAATCTGGGTGCCTTGTCTTGTAACCTTGCTGCAAG
CACAGCCCTTATGCGGTTAATTTGAAGTGCTGTTTATTAATCTTAGTGTATGATTACTGGCCTTTTTTCATTTAT
CTATAATTTACCTAAGATTACAAATCAGAAGTCATCTTGCTACCAGTATTTAGAAGCCAACATGATTATTAACG
ATGTCCAACCCGCTCTGGCCACCAGGGTCCTTTTGACACTGCTCTAACAGCCCTCCTCTGCACTCCCACCTGACA
CACCAGGCGCTAATTCAAGGAATTTCTTAACCTCTTGCTTCTTTCTAGAAAGAGAAACAGTTGGTAACCTTTTGTG
AATTAGGCTGTAACCTACTTTATAACTAACATGTCCTGCCTATTATCTGTCAGCTGCAAGGTAACCTCTGGTGAGTCA
CCACTTCAGGGCTTTACTCCGTAACAGATTTTGTTGGCATAGCTCTGGGGTGGGCAGTTTTTTGAAAATGGGCTC
AACCAGAAAAGCCCAAGTTCATGCAGCTGTGGCAGAGTTACAGTTCTGTGGTTTCATGTTAGTTACCTTATAGTT
ACTGTGTAATTAGTGCCACTTAATGTATGTTACCAAAAATAAATATATCTACCCAGACTAGATGTAGTATTTTT
TGTATAATTGGATTTCTAATACTGTATCCTCAAAGAAAGTGATTGGTTTTTTAAAAAAGAAAGTGATTGG
AAATAAAGTCAGATGGAAAATTCATTTTTTAAATCCCGTTTTGTCACTTTTCTGATAAAAGATGGCCATATTA
CCCCTTTTCGGCCCCATGTATCTCAGTACCCCATGGAGCTGGGCTAAGTAAATAGGAATTGGTTTCACGCCTGAG
GCAATTAGACACTTTGGAAGATGGCATAACCTGTCTCACCTGGACTTAAGCATCTGGCTCTAATTCACAGTGCTC
TTTTCTCCTCACTGTATCCAGGTTCCCTCCCAGAGGAGCCACCAGTTCTCATGGGTGGCACTCAGTCTCTCTTCT
CTCCAGCTGACTAACTTTTTTTCTGTACCAGTTAATTTTTCCAACCTACTAATAGAATAAAGGCAGTTTTCT

1223/6881
FIGURE 1138

MAAIRKKLVIVGDGACGKTCLLIVFSKDQFPEVYVPTVFENYVADIEVDGKQVELALWDTAGQEDYDRLRPLSYP
DTDVILMCFSIDSPDSLENIPEKWTPEVKHFCPNVPIILVGNKKDLRNDHTRRELAKMKQEPVKPEEGRDMANR
IGAFGYMECSAKTKDGVREVFEMATRAALQARRGKKKSGCLVL

1224/6881
FIGURE 1139

TGAGCCCCAGCTAAGCGCTGCCCTTGAGTATGTGCGGAGTCACCCCTTGGACCCCATCGACACTGTGGACTTCGA
GCGGGAATGTGGCGTGGGTGTCATTGTGACCCAGAGCAGATTGAGGAGGCTGTGGAGGCTGCTATTAACAGGCA
CCGGCCCCAGCTCCTGGTGGAACGTTACCATTTCAACATGGGGCTGCTGATGGGAGAGGCTCGGGCTGTGCTGAA
GTGGGCAGATGGCAAAATGATCAAGAATGAAGTGGACATGCAGGTCCTCCACCTTCTGGGCCCCAAGTTGGAGGC
TGATCTGGAGAAGAAGTTCAAGGTGGCAAAAGCTCGGCTAGAAGAAACAGACCGGAGGACGGCAAAGGATGTGGT
GGAGAATGGCGAGACTGCTGACCAGACCTGTCTCTGATGGAGCAGCTCCGGGGGAGGCCCTTAAGTTCCACAA
GCCTGGTGAGAACTACAAGACCCAGGCTATGTGGTCACTCCACACACCATGAATCTACTAAAGCAGCACCTGGA
GATTACTGGTGGGCAGGTACGTACCCGGTTCCCGCCAGAACCCAATGGAATCCTGCATATTGGACATGCCAAAGC
CATCAATTTCAACTTTGGCTATGCCAAGGCCAACAATGGCATCTGTTTTCTGCGTTTTGATGACACCAACCCTGA
GAAGGAGGAAGCAAAGTTCTTCACGGCCATCTGTGACATGGTAGCCTGGCTAGGCTACACACCTTACAAAGTCAC
ATATGCGTCTGACTATTTTGACCAGCTATATGCGTGGGCTGTGGAGCTCATCCGCAGGGGTCTGGCTTATGTGTG
CCACCAGCGAGGAGAGGAGCTCAAAGGCCATAATACTCTGCCTTCACCCTGGAGAGACCGTCCCATGGAGGAGTC
ACTGCTGCTCTTTGAGGCAATGCGCAAGSGCAAGTTTTAGAGGGCGAGGCCACACTACGGATGAAGCTGGTGTG
GGAGGATGGCAAGATGGACCTGTAGCCTATCGAGTCAAGTATACACCACACCACCGCACAGGGGACAAATGGTG
CATCTATCCACCTACGACTACACACACTGCCTCTGTGACTCCATCGAGCACATCACTCACTCACTCTGCACCAA
GGAATTCCAGGCCCG

1225/6881
FIGURE 1140A

GAAGGCAGTTTCCGGAGGGAAGGGGTAGGGTTGGGGTGGGGGCGCTCTCCGCCCGGTGTTGCGCTCCTTCCCAGA
ATCCGCTCCGGCCTTTCCCTTCCTGCCGCGATTCCCAACTTTGCTCAAAGTCGCTGGACTCTAAGCTGTGCGAGGG
ACCGCTGGACAGACCTGGGAAGTACAGAGGGCCTGGAGGGAAACAGGCCAAAGACCCACAGGCAGAGTTGACAC
GGAACCCCAAAGCAAGGAGGAGGGCTCGGGCCCGAGACCGTTACCTCCCTTATCCCTGTTCCCTCCTTTCAGGA
TGGAGCTGACCTCAAGGAAAGAGGGAGGGGACAGCCTCTGCCCTGGGAAGTTCGACTGGGCCTACTGCTAAGCG
GTGAGAGGGCCTGGTGGGGGCTGGGGGTTGTGGAATGTGATGGTAGTCCCTGGGAGTTGCCCTTGGGGCACATGA
GGTGGAGCCACTGGATAGGAAGTCCACGGAAGTGAAGTACTGTGCCCTGAGTGGCTGCCACACTGGCACA
GGCCCTGCCCCGATGXX
XX
AGAATGGTATCCCTGCGGTACCATCCAGCTGGAGCTGGAGGCTGAGTTTCATTTCACACACCTCATTATGACCT
TCAAGACATTTGCGCCTGCTGCCATGCTGGTGAACGCTCAGCAGACTTTGGCCGCACCTGGCATGTGTACCGAT
ATTTCTCCTATGACTGTGGGGCTGACTTCCCAGGAGTCCCCTAGCACCCCCACGGCACTGGGATGATGTAGTCT
GTGAGTCCCGCTACTCAGAGATTGAGCCATCCACTGAAGGCGAGGTCATCTATCGTGTGCTGGACCCTGCCATCC
CTATCCAGACCCCTACAGCTCACGGATTGAGAACCTGTTGAAGATCACCAACCTACGGGTGAACCTGACTCGTC
TACACAGCTTGGGAGACAACCTACTCGACCCACGGAGGGAGATCCGAGAGAAGTACTACTATGCCCTCTATGAGC
TGGTTGTACGTGGCAACTGCTTCTGCTACGGACACGCTCAGAGTGTGCACCCGCCCCAGGGGCACAGCCCATG
CTGAGGGCATGGTGCACGGAGCTTGATCTGCAACACAACACAGTGGCCTCAACTGCGAGCAGTGTGAGGATT
TCTATCGTGACCTGCCCTGGCGTCCGGCTGAGGACGGCCATAGTCATGCCTGTAGGAAGTGTGAGTGCCATGGGC
ACACCCACAGCTGCCACTTCGACATGGCCGTATACCTGGCATCTGGCAATGTGAGTGGAGGTGTGTGTGATGGAT
GTCAGCATAACACAGCTGGGCGCCACTGTGAGCTCTGTGCGCCCTTCTTCTACCGTGACCCAACCAAGGACCTGC
GGGATCCGGCTGTGTGCCGCTCCTGTGATTGTGACCCCATGGGTCTCAAGACGGTGGTTCGCTGTGATTCCCATG
ATGACCTGACACIGGGACTGGTCTCCGGCCAGTGTGCTGCAAGAACATGTGGTGGGCACTCGCTGCCAGCAAT
GCCGTGATGGCTTCTTTGGGCTCAGCATCAGTGACCGTCTGGGCTGCCGGCGTATGTCAATGTAATGCACGGGC
ACAGTGCTGGGAGCACTCCTTGTGACCCCAACAGTGGATCCTGTTACTGCAACGCTCTAGTACTGGACGTGGA
TGTGACCGCTGCCTGCCTGGCCACTGGGGCTGAGCCACGACCTGCTCGGCTGCCGCCCTGTGACTGCGACGTG
GGTGGTGTCTTGGATCCCCAGTGTGATGAGGGCAGAGTCAATGCCACTGCCGCCAGCACATGGTTGGCGCAGC
TGTGAGCAGGTGCAACCTGGCTACTTCCGGCCCTTCTGACCCCGGGGAACTCCATCCTGGACTGGCTCAGGCTTCGTGCG
CAGGTGCTCGATGTGGTGGAGCGCTGGTGACCCCGGGGAACTCCATCCTGGACTGGCTCAGGCTTCGTGCGG
CTACAGGAAGGTGAGACCTGGAGTTCTTGGTGGCTCTGTGCCGAAGGCTATGGACTATGACCTGCTGCTGCGC
TTAGAGCCCCAGGTCCCTGAGCAATGGGCAGAGTTGGAAGTGAATGTGACAGCTCCAGGCGCTGTGCCCTGCCAC
AGCCTGTGTGGGCATTTGGTGCCCAAGGATGATCGCATCAAGGACTCTGCAACCACATGCCAGGTACTTGATA
TTTCCTAATCCTGTCTGCCTTGAGCCTGGTATCTCTACAAGCTGCATCTGAAGCTGGTACGGACAGGGGGAAGT
GCCCAGCTGAGACTCCCTACTCTGGACCTGGCTGCTCATTGACTCGCTGGTGTGCTGCTGCCCGTGTCTGGTG
CTAGAGATGTTTAGTGGGGGTGATGCTGCTGCCCTGGAGCGCCAGGCCACCTTTGAACGCTACCAATGCCATGAG
GAGGTCTGGTGCCAGCAAGACTTCTCCCTCTGAGGCTGCGCACCCCTCCTCATCAGCCTGTCCACCTCATC
TACAATGGTGCCCTGCCATGTGAGTGAACCTCAAGGTTCACTGAGTCTGTGAGTGAACCTCATGGTGGTCAG
TGCCTGTGCAAGCCTGGAGTGGTTGGGCGCCGCTGTGACCTCTGTGCCCTGGCTACTATGGCTTTGGCCCCACA
GGCTGTCAAGCCTGCCAGTGCAGCCAGAGGGGGCACTCAGCAGTCTCTGTGAAAAGACCAGTGGGCAATGTCTC
TGTGCAACTGGTGCCTTTGGGCTTCGCTGTGACCGCTGCCAGCGTGGCCAGTGGGATTCCCTAGCTGCCGGCCA
TGTGTCTGCAATGGGCATGCAGATGAGTGAACACCCACACAGCGCTTGCCTGGGCTGCCGTGATCACACAGGG
GGTGAAGCACTGTGAAAGGTGCATTGCTGGTTTCCAGGGGACCCACGGCTGCCATATGGGGGCCAGTGCCGGCCC
TGTCCCTGTCTGAAGGCCCTGGGAGCCAACGGCACTTTGCTACTTCTTGCCACCAGGATGAATATTCCCAGCAG
ATTGTGTGCCACTGCCGGGCAGGCTATACGGGGCTGCGATGTGAAGCTTGTGCCCTGGGCACTTTGGGGACCCA
TCAAGGCCAGGTGGCCGGTGCCAACTGTGTGAGTGAAGTGAAGCTTGTGCCCTGGGCACTTTGGGGACCCA
CCCCACACGGGGCAATGCCCTGCGCTGTTTACACCACACAGAGGGTCCACACTGTGCCACTGCAAGCCTGGCTTC
CATGGGCAGGCTGCCCGACAGAGCTGTACCGCTGCACATGCAACCTGCTGGGCACAAATCCGCAGCAGTGCCCA
TCTCCTGACCACTGCCACTGTGATCCAAGCAGTGGGCGAGTGGCCATGCTTCCCAATGTCCAGGGCCCTAGCTGT
GACCGCTGTGCCCCCAACTTCTGGAACCTCACCAGTGGCCATGGTTGCCAGCCTTGTGCTGCCACCCAAGCCGG

1226/6881

FIGURE 1140B

GCCAGAGGCCCCACCTGCAACGAGTTCACAGGGCAGTGCCACTGCCGTGCCGGCTTTGGAGGGCGGACTTGTTC
GAGTGCCAAGAGCTCCACTGGGAGACCTGGGTTGCAGTGCCATGCCTGTGATTGTGACTCTCGTGGAATAGAT
ACACCTCAGTGTCACCGCTTCACAGGTCAGTGAGCTGCCGCCAGGGGTGTCTGGTGTGCGCTGTGACCAAGTGT
GCCCGTGGCTTCTCAGGAATCTTTCCTGCCTGCCATCCCTGCCATGCATGCTTCGGGGATTGGGACCGAGTGGTG
CAGGACTTGGCAGCCCGTACACAGCGCCTAGAGCAGCGGGCGCAGGAGTTGCAACAGACGGGTGTGCTGGGTGCC
TTTGAGAGCAGCTTCTGGCACATGCAGGAGAAGCTGGGCATTGTGCAGGGCATCGTAGGTGCCCGCAACACCTCA
GCCGCCTCCACTGCACAGCTTGTGGAGGCCACAGAGGAGCTGCCGCGTGAAATTGGGGAGGCCACTGAGCACCTG
ACTCAGCTCGAGGCAGACCTGACAGATGTGCAAGATGAGAAGTTCAATGCCAACCATGCACTAAGTGGTCTGGAG
CGAGATAGGCTTGCACCTTAATCTCACACTGCCGCAGCTCGACCAGCATCTTGACTTGCTCAAACATTCAAACCTC
CTGGGTGCCATATGACAGCATCCGGCATGCCCATAGCCAGTCTGCAGAGGCAGAACGTCGTGCCAATACCTCAGCC
CTGGCAGTACCTAGCCCTGTGAGCAACTCGGCAAGTGCTCGGCATCGGACAGAGGCACTGATGGATGCTCAGAAG
GAGGACTTCAACAGCAAACACATGGCCAACCAGCGGGCACTTGGCAAGCTCTCTGCCCATACCCACACCCTGAGC
CTGACAGACATAAATGAGCTGGTGTGTGGGGCACCAGGGGATGCACCCTGTGCTACAAGCCCTTGTGGGGGTGCC
GGCTGTGAGATGAGGATGGGCAGCCGCGCTGTGGGGCCCTCAGCTGCAATGGGGCAGCGGCTACAGCAGACCTA
GCACTGGGCGGGCCCCGGCACACAGGCAGAGCTGCAGCGGGCACTGGCAGAAGGTGGTAGCATCCTCAGCAGA
GTGGCTGAGACTCGTCGGCAGGCAAGCGAGGCACAGCAGCGGGCCAGGCAGCCCTGGACAAGGCTAATGCTTCC
AGGGGACAGGTGGAACAGGCCAACCAGGAAGTTCAAGAAGTTATCCAGAGTGTGAAGGACTTCCCAACCAGGAG
GGGGCTGATCCTGATAGCATTGAAATGGTGGCCACACGGGTGCTAGAGCTCTCCATCCAGCTTCAGCTGAGCAG
ATCCAGCACCTGGCGGGTGGCATTGCAGAGCGAGTCCGGAGCCTGGCAGATGTGGATGCGATCCTGGCACGTACT
GTAGGAGATGTGCGTCTGCGGAGCAGCTACTGCAGGATGCACGGCGGGCAAGGAGCTGGGCTGAGGATGAGAAA
CAGAAGGCAGAGACAGTACAGGCAGCACTGGAGGAGGCCAGCGGGCACAGGGTATTGCCAGGGTGCCATCCGG
GGGGCAGTGGCTGACACACGGGACACAGAGCAGACCCTGTACCAGGTACAGGAGAGGATGGCAGGTGCAGAGCGG
GCACTGAGCTCTGCAGGTGAAAGGGCTCGGCAGTTGGATGCTCTCCTGGAGGCTCTGAAATTGAAACGGGCAGGA
AATAGTCTGGCAGCCTCTACAGCAGAAGAAACGGCAGGCAGTGCCAGGGTCTGTGCCAGGAGGCTGAGCAGCTG
CTACGCGGTCTCTGGGTGATCAGTACCAGACGGTGAAGGCCCTAGCTGAGCGCAAGGCCCAAGGTGTGCTGGCT
GCACAGGCAAGGGCAGAACAACTGCGGGATGAGGCTCGGGACCTGTTGCAAGCCGCTCAGGACAAGCTGCAGCGG
CTACAGGAATTGGAAGGCACCTATGAGGAAAATGAGCGGGCACTGGAGAGTAAGGCAGCCAGTTGGACGGGTTG
GAGGCCAGGATGCGCAGCGTGCTTCAAGCCATCAACTTGCAAGGTGCAGATCTAACACCTGCCAGTGACCCCTG
CCCAAGGCCTACCCAGTTCCCTAGCACTGCCCCACATGCATGTCTGCCTATGCACTGAAGAGCTCTTGGCCCCGGC
AGGGCCCCCAATAAACAGTGTGAACCCCC

1227/6881
FIGURE 1141

AGGGCCGGGAGCCCCGCCAGAGCCCGACTTCAGCCCCAGCCAGATCCCGCGTCAACGGAGGCGGAACGGCGGACC
CCGTACCCCTGCAGCATCGGAGCACCGGCGGGTGAAGGCAAGGTCCCTGGACTGGTCATATACCTCTTGTGGCCC
TGGCAGAATCAAGATGAGGCCCTGTCATGCCTCCCCAGTGAGGCCCTACAGTCTGAGCAGACAGCATGGCCTGCCA
CTGGCAGTGAACACCATGTCTGCAGGAGGTGGCCGGGCCCTTTGCTTGGCAAGTGTTCCCCCCCATGCCCACTTGC
CGGGTCTATGGCACAGTGGCACACCAAGATGGGCACCTGCTGGTGTGGGGGGTGTGGCCGGGCTGGACTGCCC
CTGGACACTGCTGAGACACTGGACATGGCCTCGCACACATGGCTGGCACTGGCACCCCTGCCCCTGCCCCGGGCT
GGTGCAGCTGCGGTAGTTCTGGGCAAGCAGGTGCTAGTGGTGGGTGGTGTGGATGAGGTCCAGAGCCCGGTAGCT
GCTGTAGAGGCCCTTCCTGATGGATGAGGGCCGCTGGGAGCGTCGGGCCACCCCTCCCTCAAGCAGCCATGGGGGTT
GCAACTGTGGAGAGAGATGGTATGGTGTATGCTCTGGGGGGAATGGGCCCTGACACGGCCCCCAGGCCAGGTA
CGTGTGTATGACCCCGTGGGACTGCTGGCTTTTCGTACCCTCCATGCCACACCCCTGCTATGGGGCTCCACC
TTCTGCACGGGAACAAGATCTATGTCTGGGGGGCCGCCAGGGCAAGCTCCCGGTGACTGCTTTTGAAGCCTTT
GATCTGGAGGCCCGTACATGGACCCGGCATCCAAGCCTACCCAGCCGTCGGGCCCTTTGCTGGCTGCGCCATGGCT
GAAGGCAGCGTCTTTAGCCTGGGTGGCTGCAGCAGCCTGGGCCCCACAACCTTCTACTCTCGCCACACTTTGTC
AACACTGTGGAGATGTTTGACCTGGAGCATGGGTCCCTGGACCAAATGCCCCGCAGCCTGCGCATGAGGGATAAG
AGGGCAGACTTTGTGGTTGGGTCCCTTGGGGGCCACATTGTGGCCATTGGGGGCCTTGGAAACCAGCCATGTCCT
TTGGGCTCTGTGGAGAGCTTTAGCCTTGCACGGCGGCGCTGGGAGGCATTGCCTGCCATGCCCACTGCCCCGCTGC
TCCTGCTCTAGTCTGCAGGCTGGGCCCCGGCTGTTTGTATTGGGGGTGTGGCCAGGGCCCCAGTCAAGCCGTG
GAGGCACTGTGTCTGCGTGATGGGTCTGAAGGCTTGGTGGGAGCTGTCCACTGGAGCAGCTATTGCCAGAGGC
AGCTATTTCTATGGCTCCTTTTGCTGCTGAGGACACTCACTGTGGCTCTGTGGGATGAGAGAGGCATGGGGGTGA
GCACTTGAAACACTGCCCTTGGGGCCTTGGGTAGGGGAGCCTTTGTCTTTAGTGCAGGACACACATATGCTTACA
CCTACCTTTATCACCATTTCGTTTCATGAATCATGCCTAGCTCCATCCTTGCCCTGGGACCTACTAGGCCTTCCATC
CAACTGGGAAATGGGGAGAAGCAAAGCTGGCCTCATGCTCTTCAGGGTCAGTTCCTATCTGGAGTTGACCAGGCC
TACCCAGTTGCCATTCTGAAAAATCTCAGCTGCCAGGCTGCCTTTAGGGTCCCTGCAGACCCAGGAGAGTTGA
GAGGTGGGGGACACAGAGAGAATAGAGAGGATGTGGGAAGTCCAGAGGGCCGGAGCGCAGGAGTTCAAGTGGA
GGAATGCTGGCTTTGAGCCCTCTACACTGCTGGTGTATGACCTTGGACAAGTCACTTCACCTCTCTGTGCCTCA
GCATCCTCATCTATAAATGGGGATCTCTGAAACCTTCCTACCCCTACCTACCTACAGGGCTGTTGTGAGGACCCA
GGGAGTTTGGATGTGGAAGTAAAAGTGCTGCTAAACCTA

1228/6881

FIGURE 1142

MSAGGGRAFAWQVFPPMPTCRVYGTVAHQDGHLLVLGGCGRAGLPD TAETLDMASHTWLALAPLPTARAGAAV
VLGKQVLVVGGVDEVQSPVAAVEAFMDEGRWERRATLPQAAMGVATVERDGMVYALGGMGPD TAPQAQVRVYDP
RRDCWLSLPSMPTPCYGASTFLHG NKIYVLGGRQGKLPVTAFEAFDLEARTWTRHPSLPSRRAFAGCAMAEGSVF
SLGGLQQPGPHNFYSRPHFVNTVEMFDLEHG SWTKLPSLRMRDKRADFVVGSLGGHIVAIGGLGNQPCPLGSVE
SFSLARRRWEALPAMP TARCS CSSLQAGPRLFVIGGVAQGQPSQAVEALCLRDGV

1229/6881
FIGURE 1143

GGCGGCAGAGAGGAGACTATGGAACGTCAGGTGCTGCTGAGCGAGCCCCGAGGAGGCGGCGGCTCTGTATCGGGGC
CTTAGCCGCCAGCCCGCGCTGAGCGCCGCTGCCTGGGCCCGGAGGTACCCACGCAGTACGGCGGCCAATACCGG
ACGGTGACACTGAGTGGACCCAGAGGGACCTGGAACGCATGGAGAACATTCGATTCTGCCGCCAATACCTGGTG
TTCCATGACGGGGACTCAGTGGTGTGTTGTCAGGACCTGCAGGCAACAGTGTGGAGACCCGGGGGAACTGCTGAGC
AGAGAGTCTCCTTCAGGCACCATGAAAGCTGTGCTGCGCAAGGCTGGAGGCACGGGCCCTGGGGAAGAGAAGCAG
TTCCTGGAGGTCTGGGAGAAGAACCAGGAGCTCAAGAGCTTCAACCTGTCAGCGCTGGAGAAACATGGGCCTGTT
TATGAGGATGACTGCTTTGGCTGCCTGTCTGGTGCCTCGGAGACACACTTGTGTATGTGGCAGAGAAGAAG
CGCCCCAAGGCCGAGTCCCTTCTTCAGACCAAAGCCTTGGACGTCAGTGCCAGCGATGATGAGATAGCCAGGCTG
AAGAAGCCAGACCAAGCCATCAAGGGGGATCAGTTTGTGTTTTATGAAGACTGGGGAGAAAACATGGTTTCCAAA
AGCATCCCTGTGCTCTGCGTGTGGATGTGAGAGTGGCAACATCTCTGTGCTTGAGGGGGTCCCTGAGAATGTG
TCCCCTGGACAGGCATTTTGGGCCCTTGGAGATGCTGGTGTGGTGTGTTGTGGGCTGGTGGCATGAGCCCTTCCGG
TTGGGCATCCGCTTTTGCACCAATCGCAGGTACGCCCTGTATTATGTGGACCTCATCGGGGGGAAGTGTGAGCTC
CTCTCGGATGACTCCCTGGCTGTCTTCTCCCGGCTGAGCCCAGACCAATGTCGATTGTCTACCTGCAGTAC
CCATCTCTGATCCCCATCACCAATGCAGCCAGCTGTGCCTGTATGACTGGTATACCAAGGTTACCTCAGTGGTG
GTAGATGTTGTGCCTCGGCAGCTGGGAGAGAACTTCTCTGGGATCTACTGCAGCCTTCTGCCTTTGGGATGCTGG
TCAGCTGACAGCCAGAGAGTGGTCTTTGACTCGGCTCAGCGCAGCCGGCAGGACCTGTTTGTCTGTGGACACCCAA
GTGGGCATGTGACCTCCCTCACAGCTGGAGGGTCAAGGTGGGAGCTGGAAGTTGCTCACAATTGACCAGGACCTC
ATGGTGGCACAGTTTTCCACACCCAGCCTACCTCCAACCCTGAAAGTTGGGTTCCTGCCTTCTGCAGGGGAAGGAG
CAGTCAGTGTGTTGGGTGTCCCTGGAGGAGGCCGAGCCATTCCCGACATCCACTGGGGCATCCGGGTGCTACAG
CCACCCCCAGAGCAAGAGAATGTGCAGTATGCTGGCCTTGACTTTGAAGCAATCCTGCTGCAGCCTGGCAGCCCT
CCAGATAAGACCCAAGTGCCCATGGTGGTCAATGCCCCACGGGGGGCCCCATTTCATCCTTTGTCACTGCCTGGATG
CTGTTCCCAGCCATGCTTTGCAAGATGGGCTTTGCGGTACTACTAGTGAACATATCGTGGCTCCACGGGCTTTGGC
CAGGACAGCATCCTCTCCCTCCCAGGCAATGTGGGCCACCAGGATGTGAAGGATGTCCAGTTTGCAGTGGAAACAG
GTGCTCCAGGAGGAACACTTTGATGCAAGCCATGTGGCCCTTATGGGTGGTTCCTATGGTGGCTTTCATTTCCTGC
CACTTGATTGGTCACTACCCAGAGACCTACAGGGCCTGCGTGGCCCGGAACCCCGTGATCAACATCGCCTCCATG
TTGGGCTCCACTGACATCCCTGACTGGTGGTGGTGGAGGCTGGCTTTCCTTTTCAGCAGTGACTGCCTGCCAGAC
CTCAGCGTGTGGGCTGAGATGCTGGACAAATCGCCCATCAGATACATCCCTCAGGTGAAGACACCACTGTTACTG
ATGTTGGGCCAGGAGGACCGGCGTGTGCCCTTCAAGCAGGGCATGGAGTATTACCGTGGCCTCAAGACCCGGAAT
GTGCTGTTGGGCTCCTGCTCTATCCAAAAGCACCCACGCATTATCAGAGGTGGAGGTGGAGTGCAGACAGCTTC
ATGAATGCTGTGCTCTGGCTACGCACACACTTGGGCAGCTGAAGCCCTGCCATTCTGCATGAGCTGATCAGCCTG
TGCCACACTTCGCTCTTGGAGAGCTCAACGGTCTGGCAGGGCAGCAGGAGGCTTCTGGGCTCTGGACTCCACGG
ATGCGTGGGCAGAGGAATGTGGGCTATGTAGTCATAATAAATTAGGAC

1230/6881

FIGURE 1144

MERQVLLSEPEEAAAALYRGLSRQPALSAACLGPEVTTQYGGQYRTVHTEWTQRD LERMENIRFCRQYLVFHDGDS
VVFAGPAGNSVETRGE LLSRESPSGTMKAVLRKAGGTGPGE EKQFLEVWEKNRKLKSFNLSALEKHGPVYEDDCF
GCLSWSHSETHLLYVAEKKRPKAESFFQTKALDVSASDDEIARLKKPDQAIKGDQFVFYEDWGENMVSKSIPVLC
VLDVESGNISVLEGVPE NVSPGQAFWAPGDAGVVFVGWWHEPFRLGIRFCTNRRSALYYVDLIGGKCELLSDDSL
AVSSPRLSPDQCRIVYLQYPSLIPHHQCSQLCLYDWYTKVTSVVVDVVPRLGENFSGIYCSLLEPLGCWSADSQR
VVFDSAQRSRQDLFAVDTQVGTVTSLTAGSGGSGWKLLTIDQDLMVAQFSTPSLPPTLKVGFLPSAGKEQSVLWV
SLEEAEPIDIHWGIRVLQPPPEQENVQYAGLDFEAILLQPGSPDKTQVPMVMPHGGPHSSFTAWMLFPAML
CKMGFAVLLVNYRGSTGFGQDSILSLPGNVGHQDVKD VQFAVEQVLQEEHFDASHVALMGGSHGGFISCHLIGQY
PETYRACVARNPVINIASMLGSTDIPDWCVVEAGFPFSSDCLPDL SVWAEMLDKSPIRYIPQVKTPLLMLGQED
RRVPFKQGMEYYRALKTRNVPVRLLLYPKSTHALSEVEVESDSFMNAVWLRLRTHLGS

1231/6881
FIGURE 1145

TACTCCCGGAGTCACTCATCCCTTAAGCAAGCAGGGTGGGGTTAGGTGCGCGTGCGCGGTTTTAATACTCCTCCC
CGAACTGCCAACTCTTCACGCACGCGAAGTAGGCCCCACCCTGGCTGGGTTTACGCGTGCGCACTAACGGGCCTG
GTCCCGGAAGACCACACGCGTGCGTGGTGGGGACTACGGTGACAGTACCCCGGGTGGGGCGAGGGCCAGTCA**TGG**
CGGAGTCCTGGTCTGGGCAGGCCCTTGCAAGGCTCTGCCGGCCACGGTGCTGGGCGCGCTGGGCAGCGAGTTCTTGC
GGGAGTGGGAGGCGCAGGACATGCGCGTGACCCTCTTCAAGCTGCTGCTGCTGTGGTTGGTGTAAAGTCTCCTGG
GCATCCAGCTGGCGTGGGGGTTCTACGGGAATACAGTGACCGGGTTGTATCACCGTCCAGGTCTGGGTGGTCAGA
ATGGATCCACGCCTGATGGCTCCACGCATTTCCCTTCGTGGGAAATGGCAGCAAACGAACCTCTCAAAACCCACA
GAGA**ATAA**GGGAAGGCAGCAGAGGGTCTCCAAGGGCATCACTGGGTCTGCTGGCTTCTACACTGGGTCTGTCTAC
TCCCCAGACCTCAGGGACAACCTGCCGGGGGTTCAAGGTTGGTAGCAGGGAGTACCCAGTGCTACAGGGCTGGGC
CTCTTCTGCCTCTTAAGCCTGCTCCCTACCCAGGCAGTGGGCAAGTGAAGAGTTTGCCTGTACTCTTATCTGGG
TGCCTTAAGGAGAGAGATTGTGTTCTTCTCTCTCAGGGGTGATAACTCAGGAAGCCTCTGGGTGGGAAGACCA
TCAGTTCCTTTTGTCTTAGGTTTCTTTTCTGTCCCTCTTCCATCCCCAAGATGTGACCCCATAAAAATTTTCTCT
GAGTTGGCCAGGCATGGTGGCTCACGCCTGTAATCCCAACACTTTGGGAGGCTGAGGCAGGCAGATCACGAGGTC
AGGAGTTCGAGACCAGCCTGACCAACATGGTGAAAACCCCATCTCTACTAAAAATACAAAAATTAGCCGGGTGTG
GTGGCACACACCAAGTAATCCCAGCTACTCGGGAGGCTGAAGCAGGAGATTGCTTGAACCTGGGAGGCAGAGGTT
GCAGTGAGCCAAGATTGCGCCGTTGTACTCCAGCCTGGGCAACAGAGCAAGACCCATCTCAAAAAAAAAAATTTTT
TTCTTGAGAGGAAGCCTGAGGTTGACCAGCTCTGGGGTTGTAAAGGCAGGTCTGTTTTCTCCTAGGCCCTGAGTT
TTCTGAATCTCTGGTTTTGCTTTGTTGGCAAGGAGCCAGGGAATCCTGACCTGAGCCAGACCTTAAGCTCTATGG
TTATTTAGCTGGCCATTCAGGTATAAGGCAGGGTGGTGTACCTGCTGGCACTATCCAGATGGAGGCACCAAACAC
CCACATACCTGGCCCAACCAGACTTCTCCCGTGAGCCAGGCAAAAGGAAATTGTCTATCTGCCAACTGTCCTACTCA
TATTCCTCTCAGTCTTCTTGGGGGTAAAGCTGATTACCTGAAGGACAGCTGAACCCCTGGGGTAGCCTCCTATCC
ACCACTGCTTAAGTGCTATAGGGAATGTGGGTCTGCACCTTGTCCCTCATAGGATGGTACCAAGCATTTAGTGC
ACAGTGGCCCCATCATAGCCTGCAGCCTCATCATTTCCCATCTGGACCTGGTACAAATGCACGTCACAGGCTCAG
CTCCTCCCCACTAGCATCTTCTCTACCTTCAAGAACCAGGCAGCCCTGCCATGTCACAATAGGCCAGGGGAGTTT
CCAAAGATGTGGGTGGCAAATGCCCCCTATAGAAACACCAAGTACCTGAAAGCACTGTAGCCCTGGACCTGCCTCCT
TCCCTCGGGGCCATACTTCTGTTTCCATCTGCTGGGCCACCAAGCCACTTTAGTGACCCCTGCCTACTTCTTCTCT
GTGGATATCATACTTCCATCTGGCTGCCTTTGCTTAAGCCATCTTTGTGGTAGAGGGGCCCTGGAATTGCAGCT
GTACTGAGGATGATGTTATTACAGCCCTGGCCACCCACTAATACTACTGCACAGAGTCAGGATCTCACATTT
CACCCCAGGCTCAACTGAGGATGTGGCTTATTAAACACGGAAGTGC

1232/6881
FIGURE 1146

MAESWSGQALQALPATVLGALGSEFLREWEAQDMRVTLFKLLLLWLVLSSLGIQLAWGFYGNVTVTGLYHRPGLGG
QNGSTPDGSTHFPSWEMAANEPLKTHRE

1233/6881
FIGURE 1147

CCCCAGTGCTTCCCGCAGAGGGCTGGTGGTGGGAGCGGAGTGGGTCCGGCGGGGGCCGAGCCGGGCCGTGGGCCGT
GTGGGGGCGGGCGGGCGGGCGGGCGGGACGGCGGGATGGGCTGCACCGTGAGCGCCGAGGACAAGGCGGGCGG
CCGAGCGCTCTAAGATGATCGACAAGAACCTGCCGGGAGGACGGAGAGAAGGCGGGCGGGGAGGTGAAGTTGCTGC
TGTTGGGTGCTGGGGAGTCAGGGAAGAGCACCATCGTCAAGCAGATGAAGATCATCCACGAGGATGGCTACTCCG
AGGAGGAATGCCGCGAGTACCGGGCGGTTGTCTACAGCAACACCATCCAGTCCATCATGGCCATTGTCAAAGCCA
TGGGCAACCTGCAGATCGACTTTGCCGACCCCTCCAGAGCGGACGACGCCAGGCAGCTATTTGCACTGTCCTGCA
CCGCCGAGGAGCAAGGCGTGCTCCCTGATGACCTGTCCGGCGTCATCCGGAGGCTCTGGGCTGACCATGGTGTGC
AGGCCTGCTTTGGCCGCTCAAGGGAATACCAGCTCAACGACTCAGCTGCCTACTACCTGAACGACCTGGAGCGTA
TTGCACAGAGTGACTACATCCCCACACAGCAAGATGTGCTACGGACCCGCGTAAAGACCACGGGGATCGTGGAGA
CACACTTCACCTTCAAGGACCTACACTTCAAGATGTTTGATGTGGGTGGTCAGCGGTCTGAGCGGAAGAAGTGGA
TCCACTGCTTTGAGGGCGTCACAGCCATCATCTTCTGCGTAGCCTTGAGCGCCTATGACTTGGTGCTAGCTGAGG
ACGAGGAGATGAACCGCATGCATGAGAGCATGAAGCTATTTCGATAGCATCTGCAACAACAAGTGGTTCACAGACA
CGTCCATCATCTCTTCTCAACAAGAAGGACCTGTTTGAGGAGAAGATCACACACAGTCCCCTGACCATCTGCT
TCCCTGAGTACACAGGGGCCAACAATATGATGAGGCAGCCAGCTACATCCAGAGTAAGTTTGAGGACCTGAATA
AGCGCAAAGACACCAAGGAGATCTACACGCACTTCACGTGCGCCACCGACACCAAGAACGTGCAGTTCTGTGTTG
ACGCCGTCACCGATGTCATCATCAAGAACAACCTGAAGGACTGCGGCCTCTTCTGAGGGGCAGCGGGCCTGGCG
GGATGGGCCACCGCGACTTTGTACCCCCAACCCCTGAGGAAGATGGGGGCAAGAAGATCACGCTCCCCGCGTG
TTCCCCGCGCGCTTTTCTCCTCTTTCTCTCTTTGTTCTCAGCTCCCCCTGTCCCCTCAGCTCCAGACGTAGGGG
AGGGGTGGCCACAGGCCCTCCCTGTTTGAAGCCTGCCCTTGCTGAGATGCTGGTAATGGCCATGGTACCCCTTC
TGGGCATCTGTTCTGGTTTTTAACCATTTGCTTGTCTGTGATGAGGGGAGGGGGGCACATGCTGAGTCTCCCAA
GGCTGCGTCTGGAGGGGCCCTGCTTCTCCAGCCTGGACCCCCAGCTTTGCCCAACACCAGCCCCTGCCCCAGCC
CAAGTCCAAATGTTTACAGGGAGCCTCCTGCCAGTCCCCAACCCCAAGCCGCTCGGAGGCCCCAAAGGAAAAAG
CACAAGAAGCGTGAGACGCCACCATTCTGGAACACAGTCC

1234/6881
FIGURE 1148

MGCTVSAEDKAAAERSKMIDKNLREDGEKAAREVKLLLLGAGESGKSTIVQMKI IHEDGYSEEECRQYRAVVYS
NTIQSIMAIVKAMGNLQIDFADPSRADDARQLFALSCTAEEQGVLPDDL SGVIRRLWADHGVQACFGRSREYQLN
DSAAYYLNDLERIAQSDYIPTQQDVLRTVRKTTGIVETHFTFKDLHFKMFDVGGQRSEKRWIHC FEGVTAIIFC
VALSAYDLVLAEDEEMNRMHESMKLFDSICNNKWFDTDSIILFLNKKDLFE EKITHSPLTICFPEYTGANKYDEA
ASYIQSKFEDLNKRKDTKEIYTHFTCATDTKNVQFVFDVAVTDVVIKNNLKDCGLF

1235/6881
FIGURE 1149

TCTGTGATTGTGGCCAGGCGGGGCACCTCGGAGGGGAGGGTTCCGGAAGTGAATGCGACCCCCCAGCCTCTTTC
CCCTAGGGGCTGTAATCTGATCCCTGGGGACTCCCCCCTAGCCTCCCGCCCTCGCCCTCACTGCTGACTCCTCT
TCCAGATCCTGGGGCAGAGTCCAGGGCAGCTCAAGGCTCCTCCACACACACACCCGCTGAACCCCTGAGCACCCCTG
AGCTGCTGAGATGGGGCGGGCGGGGCTGCCGCCGTGATCCCGGGCCTGGCCCTGCTCTGGGCAGTGGGGCTGGG
GAGTGCCGCCCCAGCCCCCAGCCTTCGGCTCTCCTTCCAAGAGCTCCAGGCCTGGCATGGTCTCCAGACTTT
CAGCCTGGAGCGAACCTGCTGCTACCAGGCCTTGCTGGTGGATGAGGAGCGTGGACGCCTGTTTGTGGGTGCCGA
GAACCATGTGGCTCCCTCAACCTGGACAACATCAGCAAGCGGGCCAAAGAAGCTGGCCTGGCCGGCCCCCTGTGGA
ATGGCGAGAGGAGTGCAACTGGGCAGGAAGGACATTGGTACTGAGTGCAATGAACCTTCGTGAAGTTGCTGCATGC
CTACAACCGCACCCATTTGCTGGCCTGTGGCACGGGAGCCTTCCACCCAACCTGTGCCTTTGTGGAAGTGGGCCA
CCGGGCAGAGGAGCCCGTCCCTCCGGCTGGACCCAGGAAGGATAGAGGATGGCAAGGGGAAGAGTCTTATGACCC
CAGGCATCGGGCTGCCTCCGTGCTGGTGGGGGAGGAGCTATACTCAGGGGTGGCAGCAGACCTCATGGGACGAGA
CTTTACCATCTTTTCGAGCCTAGGGCAACGTCCAAGTCTCCGAACAGAGCCACAGACTCCCGCTGGCTCAATGA
GCCCAAGTTTGTCAAGGTATTTTGGATCCCGGAGAGCGAGAACCCAGACGACGACAAAATCTACTTCTTCTTCG
TGAGACGGCGGTAGAGGCGGGCGCCGGCACTGGGACGCCTGTCCGTGTCCCGCTTGGCCAGATCTGCCGGAACGA
CGTGGGCGGCCAGCGCAGCCTGGTCAACAAGTGGACGACGTTTCTGAAGGCGCGGCTGGTGTGCTCGGTGCCCGG
CGTCGAGGGCGACACCCACTTCGATCAGCTCCAGGATGTGTTTCTGTTGTCTCGCGGGACCAACGGACCCCGCT
GCTCTATGCGCTCTTCTCCACGTCCAGCAGCATCTTCCAGGGCTCTGCGGTGTGCGTGTACAGCATGAACGACGT
GCCCGGGGCTTCTTGGGACCCCTTTCACACAAGGAGGGGCCCATGCACCAAGTGGGTGTACATACAGGGTTCGCT
CCCTACCCGCGGCCAGGCATGTGCCCCAGCAAGACCTTTGGCACCTTCAGTTCCACCAAGGACTTCCAGACGA
TGTCATCCAGTTTGC CGGAACACCCCTCATGTACAACTCTGTCTGCCCACTGGGGGGCGCCCTCTTTTCTCT
ACAAAGTTGGAGCCAAATTACACCTTCACTCAAAATTGCCGCGGACCGGGTTGCAGCCGCTGACGGACACTATGACGT
CCTCTTCATTGGCACAGACGTTGGCACGGTGTGAAGGTGATCTCGGTCCCAAGGGCAGTAGGCCCAGCGCAGA
GGGGCTGCTCCTGGAGGAGCTGCACGTGTTGAGGACTCGGCCGCTGTACCAGCATGCAAATTTCTTCCAAGAG
GCACCAAGTGTACGTAGCTCGCGGAGCGCGGTGGCCAGATCGCGTGTGACCGCTGCGCTGCCACGGCCCGCT
CTGCACCGAATGCTGTCTGGCGCGTGACCCCTACTGCGCCTGGGACGGGGTCGCGTGCACGCGCTTCCAGCCAG
TGCCAAGAGGCGGTTCCGGCGGCAAGACGTAAGGAATGGCGACCCAGCACGTTGTGCTCCGGAGACTCGTCTCG
TCCCGCGCTGCTGGAACACAAGGTGTTTCGGCGTGGAGGGCAGCAGCGCCTTCTGGAGTGTGAGCCCCGCTCGCT
GCAGGCGCGCGTGGAGTGGACTTTCCAGCGCGCAGGGGTGACAGCCACACCCAGGTGCTGGCAGAGGAGCGCAC
CGAGCGCACCGCCCGGGGACTACTGCTGCGCAGGCTGCGCGCCCGGGACTCGGGCGTGTACTTGTGCGCCGCGT
CGAGCAGGGCTTTACGCAACCGCTGCGTGCCTGTGCTGCACGTGTTGAGTGTACGCAGGCCGAACGACTGGC
GCGGGCCGAGGAGGTGCGCCCGCGCGCCCGGGCCCCAACTCTGGTACCGGGACTTTCTGCAGCTGGTGGGA
GCCGGGCGGAGGTGGCAGCGCAACTCCCTGCGCATGTGCCGCCGCGAGCCTGCGCTGCAGTCACTGCCCTGGA
GTCGCGGAGAAAGGGCCGTAACCGGAGGACCCACGCCCTGAGCCTCGCGCTGAGCGGGGGCCGCGCAGCGCAAC
GCACTGGTGAACAGACTGTCCCCACGCCGGAACCAAGCAGGAGACGACAGGCGAGAGAGGCCAGACAGACCC
TGAAAAGAAGGACGGGTGGGGCCGGGCACATTGGGGGTACCGGCCGATGGAGACACCAACCGACAGGCCCTGG
CTGAGGGCAGCTGCGCGGGCTTATTTATTAACAGGATAACCTTGAATGTAGCAGCCCCGGGAGGGCGGCACAGG
TCGGGCGCAGGATTAGCCGGAGGGAAGGGACGGGAAGCCGAGCTCCAGAGCAACGACAGGGCCGAGGAGGTG
CCTGGAGTGCCACCCCTGGGAGACAGACCCACCTCCTTGGGTAGTGAGCAGTGAGCAGAAAGCTGTGAACAGGC
TGGGCTGCTGGAGGTGGGGCGAGGCAGGCCGACTGTACTAAAGTAACGCAATAAACGCATTATCAGCCA

1236/6881
FIGURE 1150

MGRAGAAVIPGLALLWAVGLGSAAPSPPRRLRSLFQELQAWHGLQTFSLERTCCYQALLVDEERGRLFVGAENHV
ASLNLDNISKRAKKLAWPAPVEWREECNWAGKDIGTECMNFVKLLHAYNRTHLLACGTGAFHPTCAFVEVGHRAE
EPVLRDPGRIEDGKGKSPYDPRHRAASVLVGEELYSGVAADLMGRDFTIFRSLGQRFSLRTEPHDSRWLNPKF
VKVFWIPSENPDDDKIYFFFRETAVEAAPALGRLSVSRVGQICRNDVGGQSRSLVNKWTTFLLKARLVCSVPGV
DTHFDQLQDVFLSSRDHRTPLLYAVFSTSSIFQGSAVCVYSMNDVRRFLGPFHKEGPMHQWVSQGRVPYP
RPGMCPSKTFGTFSSTKDFPDDVIQFARNHPLMNSVLPTGGRPLFLQVGANYTFTQIAADRVAADGHYDVLFI
GTDVGTVLKVISVPKGSRPSAEGLLLEELHVFEDSAAVTSMQISSKRHQLYVASRSAVAQIALHRCAAHGRVCTE
CCLARDPYCAWDGVACTRFQPSAKRRFRQQDVRNGDPSTLCSGDSRPALLEHKVFGVEGSSAFLECEPRSLQAR
VEWTFQRAGVTAHTQVLAERTERTARGLLRLRLRRRDSGVYLCAAVEQGFTQPLRRLSLHVLSTQAERLARAE
EAAPAAPPKPLWYRDFLQLVEPGGGGSANSLRMCRPQPALQSLPLESRRKGRNRRTHAPEPRAERGPRRSATHW

1237/6881
FIGURE 1151

ATGGGCCCCAAAAAATCTTGGCGAAGTCACTTTTTTCCACTGCCTGAGGTTTGGCTGTTGCTCCTGTTATCCCAA
GCTCTAAGCCCTTCCCATGGTCCCCAGACCCAGGCAGGGGTAGGTCTCGTCTGGAGTGTCCCCTGCCAAGTGCC
CTGAGAAGCCAGTCTCTGCCCTTGGTGCTCCACTGAGGGACGCTTCGGAGTTAACCACCGTGCACTTGTTCCTCCGACG
CGGGGCTGGGGCGCGCGCAGGGCATTGTGGGTGCATAGTTTCAGCCAGCGCGTCTCGTCTGGCTGCTAGCCGCGCTCGC
CTGCGCGCTCAGGCCTCTGGGATTAGTAGTTTTAGCCTCTGTGGATGGCGGGGCGCCTCGCGAAGATGGTGGCGCG
CGTGGCGTGTGGCTCCCGTCTGTGGCCAAGTCTCAGCGCAGCGCACCGGCCGGCGTCTCGTTGGCCTGGAGCCC
ACACCCACCGGGTCCCTGACCCCGCGCCCCCGCGCCCGGTTCCCGGCATGCCTCGCGCCCGTAAGGGCAACACG
CTCCGGAAGGGTGGTTCAGCGCCGTGGAGGAGGTGCCCGGAGCAGTGCCCAAGCTGACTCGGGTTCCAGTGACGAT
GAGGCAGCCAGTGAGGCCCCGAGCACCGCCAGTGAATGCCCCAGCCTTCTCAGCACCACTGCAGAGGACAGCCCTT
GGGGGGGATGTCTGTGGATGAGCAGGGCCAGCAGGAAGACCTTGAGAGCCCTGCGCCTGGCCCTAGCGTCCCGCCTACTCCCC
GACTTCTTGTCTGGAGCGCCGCTTACGCTAGCCGATGCCCTGGAAAAGTGCCTCAAGAAAGGGAAGGGCGAGGAA
CAAGCCCTGGCTGCTGCTGTGCTAGGCCTGCTCTGCGTGCAGCTGGGGCCCTGGACCTAAGGGTGAGGAGCTGTTT
CACAGCCTGCAGCCTCTGCTGGTCTCTGTGCTCAGTGACAGCACAGCTAGCCCTGCTGCCCCGGCTCCACTGTGCT
TCTGCCCTTGGCCTGGGCTGCTACGTGGCTGCCGCTGACATCCAGGACCTGGTCTCTTGCCCTTGCCTGCTTAGAA
AGTGTTCCTCAGCCGGTTCTATGGCTTGGGGGGCAGCTCCACAAGTCTCTGTGGTTCTTGCCAGCCTGCACGGCCTG
CTCTCTGCTGCCCTGCAGGCCTGGGCATTGCTGCTCACCATCTGCCCTAGCACCCAAATCAGCCACATCCTTGAC
AGGCAGCTGCCCCGGCTGCCCCAGCTCTTGTCCAGTGAAAGTGTGAACCTGCGGATCGCTGCCGGTGAAACCATT
GCACTGCTCTTTGAGCTTGGCCGGGACCTTGAGGAGGAGTTTGTTCACGAGGACATGGAGGCCCTCTGCAGTGTC
CTGCGCACTCTGGCCACTGACAGTAACAAGTACCGTGCCAAGGCTGATCGTTCGGCGCCAGCGCTCTACTTTCCGC
GCCGTGCTGCACTCCGTGGAGGGCGGTGAATGCCAAGAAGAGATAGTGCGCTTCGGCTTTGAGGTGCTCTACATG
GACAGCTGGGCTCGGCACCGGATCTACGCTGCCTTCAAGGAAGTGCTGGGTTCGGGCATGCACCACCACCTCCAG
AACAATGAGCTACTCCGTGACATCTTTGGCCTGGGCCCTGTGCTGTTGCTGGATGCCACTGCCCTGAAGGCCTGC
AAGGTTCCACGCTTTGAGAAGCACCTGTACAATGCTGCTGCCCTTCAAAGCCCGGACCAAGGCTCGAAGCCGTGTG
CGGGACAAGCGGGCAGACATCCTGTGAAGCAGGACCTGCTGAAGAGGAGACTTCTATGCCCTTGGTCCGTATTT
TTAACAGAAGACAGTGCAACAAGTGGTCTCCACCAGTATTTGTCACTTTATTTTTTTAATGACAAAACCAAAA
CAGACATGGGGTGGGTAGCTGGGGGCCCGGACACTTGGGACCCTGACCCCTTTGTCCCTGCACTCAGCCCTGTGG
CCCCTTCCTGTCTGTCTCAGGCCAGGCTAAATATGTGCCCTCCTCAGGGCTGTGGGGCAGGCACTAGGGGGCCT
TTCCCTTCCTTTCTCTCAGGCCTTGCTCCCCCAGGATGACCCACTCTTAGGGGGGTGGTGGCATCTGGACAA
ATGCCACCACAGCAGGTGGGGTGGCAAAGCTACCTGGAATGGATTGTGTGCTGATTTTTAAGGATTATTACAGA
TAATTAAACAGAACGGTCAGCCTTCAAAAAAAAAAAAAAAAAAAAAATTCCTGCGGCCGCAAGGC

1238/6881
FIGURE 1152

MGPKKSWRSHFFPLPEVWLLLLLSQALSPSHGPQTQAGVGLVWSVPLPSALRSQSCLGAPLRDASELTTVHLFPT
RGWGARRALWVHSSASASSAASRRRLRAQASGISSFSLVGGAPREDGGARGVWLPSSGQVSAQRTGRRLVGLEP
TPTGSLTPRPPRPVPGMPRARKGNTLRKGGQRRGGGARSSAQADSGSSDDEAASEARSTASECPSLLSTTAEDSL
GGDVVDEQGGQEDLEEKLKEYVDCLTDKSAKTRQGALESRLALASRLLPDFLLERRLTADALEKCLKKGKGE
QALAAAVLGLLCVQLGPGPKGEELFHSLOPLLVSVLSDSTASPAARLHCASALGLGCYVAAADIQDLVSCLACLE
SVFSRFYGLGGSSTSPVVPASLHGLLSAALQAWALLLTICPSTQISHILDRQLRPLPQLLSSESVNLRIAAGETI
ALLFELARDLEEEFVYEDMEALCSVLRTLATDSNKYRAKADRRRQRSTFRAVLHSVEGGECEEEIVRFGEVLYM
DSWARHRIYAAFKEVLGSGMHHHLQNNELLRDIFGLGPVLLLDATAALKACKVPRFEKHLYNAAAFKARTKARSV
RDKRADIL

1239/6881
FIGURE 1153

TGCGGCCGCGTTTCCGTGGAGACAGCCGAGCCTGCGGAAGGCGGCGGGCGGCACCTGCGATCAGCGGCTGGGG
CAGGTTATGGTAGTGCGGACTGCGGTGTGAGCAGAGCGGCCACGGGGCCCGCCATGCGCCGGCGGCCCTGACATG

GGCGCCAGCGGGTCCAAAGCTCGGGGCTGTGGCCCTTCGCCTCGGCGGCCGGAGGCGGGCGGCTCAGAGGCAGCA
GGAGCTGAGCAAGCTTTGGTGCGGCCCTCGGGGCCGAGCTGTGCCCCCTTCGTATTACGCGCCGCGGCTCTATG
TTCTATGATGAGGATGGGGATCTGGCTCACGAGTTCTATGAGGAGACAATCGTCACCAAGAACGGGCAGAAGCGG
GCCAAGCTGAGGCGAGTGACATAAGAATCTGATTCTCAGGGCATCGTGAAGCTGGATCACCCCGCATCCACGTG
GATTTCCCTGTGATCCTCTATGAGGTGTGACCCTGGGAGGTGGCAGACAGAAGCACCCCTGCCCCGGCAAGAAA
CTCCCAGGCTCAATCAAGGTGTGGCTTCCATTGAGGAGCCCAGGCTGGGGCCACAACCCTGAATAAACTCTGTG
GCCCCATAACCTTCAGCTGTGAGCGGGTCGGTCCCACAGTATTGGTTGGGTGTTGGTTTGTGTGGACAAGAGGT
GGTTGGTGGGTGGTGAAGGCTAATGGCAGAGTTAGCACCCCACTCTCCCAAGCCACCCCTGCAAGCAGCATAGCA
GGGCATATACCAGTCAGGAATGCCCGTTACCTGGTTCCCTTGCTGGTCTGCTTTCTTCCAAGTTTGCTGGGGCC
TAGCCCTGCTAGAGGCTACAGCACTTTACAAGCAAGGTATGCTTTCTTCCAGCCCTAGGCTGTGGGCACTGTAT
ACAAGTAGGAACCTTCCTTTCCCTTCACTTCCCTTTTAACCCCTAGTCAGAGCATTTCAGCCGTTTGCTACCTCGAT
TCCTCCTGTGTTGGACAGAGGCTGGGGGCAGTGCCAGCCTGATTCTTCCGACCTACCTGCCATTGTTCCTCGCCT
TCAGATGGATGGACAGTTTGCTGGCTATTGATAGGAGTGGGGACTGGGTGGGGGCTTCTCCCTCTACCCAGGGCT
GGGCTGATCCCCCTACTGCAACTAACTGTTGCCCCCAACCCCGAACCCCAAGTTGAGGAGTTGAGAGAGTGCAG
GCTGGGGTCAGGACAGGCTGCGGATGCTTGTGCCTATGGGGAGTTACTCCAACCCACCTATTCTGTCTAATCTCC
ATGGCTTTGCACCAAATCCTCCACCCCTCCAATTGGGAGGGGACTGTTACCCACCTTGTGGTAAGGGACAACACC
CTAAGGCTGGTGCCAGTAGTTATGAGTAGCCTACCACCCCTCCCTTACAGTAACCCCAACCCCTCAGGATCAG
TCAAGGGAAAGCACTAGAACCCTGGGTAGGGAAAGAAAGGAGGGAAAAACCATAAAAGGAATACTTATAATGTG
AAGGTTTGTAAATAGTCCATGATGATGTCGTGGCAGAGTCTGATTTCTATATAGAGGTGACTTTTTTTTTTAAGTA
CTGTGCAAGCTCTGTGCTTCTATAATGTGGGAAATGGCTTGGGGAGGATGGCCCCCTAGCTTAGGAAGACTGTTGT
GTTATTTGTTCAATTTCAATAAAATGATTTGTAGATCCTGC

1240/6881
FIGURE 1154

MGASGSKARGLWPFASAAAGGGGSEAAGAEQALVRPRGRAVPPFVFTRRGSMFYDEDGDLAHEFYEETIVTKNGQK
RAKLRRVHKNLIPQGIVKLDHPRIHVDFPVILYEV

1241/6881
FIGURE 1155

GGCACGAGGCTGCGGCCGCCAGCTCCCGCGACCGCCTCTCCTGCCCCCTCGCCGGTACCTCAGCAAGGTGCCACTA
GAAGCGCCAGGCTGGGGCCGCCTCTGAGCGCCCCGCGGGGGCCATGGATGGTGAAACAGCAGAGGAGCAGGGGGG
CCCTGTGCCCCGCCAGTTGCACCCGGCGGACCCGGCTTGGGCGGTGCTCCGGGGGGCGGGCGGAGCCCAAGAA
GTACGCAGTGACCGACGACTACCAGTTGTCCAAGCAGGTGCTGGGCCTGGGTGTGAACGGCAAAGTGCTGGAGTG
CTTCCATCGGCGCACTGGACAGAAAGTGTGCCCTGAAGCTCCTGTATGACAGCCCCAAGGCCCGGCAGGAGGTAGA
CCATCACTGGCAGGCTTCTGGCGGCCCCCATATTGTCTGCATCCTGGATGTGTATGAGAACATGCACCATGGCAA
GCGCTGTCTCCTCATCATCATGGAATGCATGGAAGGTGGTGAGTTGTTTCAGCAGGATTCAGGAGCGTGGCGACCA
GGCTTTCACTGAGAGAGAAGCTGCAGAGATAATGCGGGATATTGGCACTGCCATCCAGTTTCTGCACAGCCATAA
CATTGCCCACCGAGATGTCAAGCCTGAAAACCTACTCTACACATCTAAGGAGAAAGACGCAGTGCTTAAGCTCAC
CGATTTTGGCTTTGCTAAGGAGACCACCCAAAATGCCCTGCAGACACCCTGCTATACTCCCTATTATGTGGCCCC
TGAGGTCTGGGTCCAGAGAAGTATGACAAGTCATGTGACATGTGGTCCCTGGGTGTCATCATGTACATCCTCCT
TTGTGGCTTCCCACCTTCTACTCCAACACGGGCCAGGCCATCTCCCCGGGGATGAAGAGGAGGATTGCGCTGGG
CCAGTACGGCTTCCCCAATCCTGAGTGGTCAGAAGTCTCTGAGGATGCCAAGCAGCTGATCCGCTCCTGTTGAA
GACAGACCCACAGAGAGGCTGACCATCACTCAGTTCATGAACCACCCCTGGATCAACCAATCGATGGTAGTGCC
ACAGACCCCACTCCACACGGCCCCGAGTGCTGCAGGAGGACAAAGACCACTGGGACGAAGTCAAGGAGGAGATGAC
CAGTGCCTTGGCCACTATGCGGGTAGACTACGACCAGGTGAAGATCAAGGACCTGAAGACCTCTAACAACCGGCT
CCTCAACAAGAGGAGAAAAAAGCAGGCGAGCAGCTCCTCTGCCTCACAGGGCTGCAACAACCACTAGTCTATGGG
GCCTTGGAGGAGCCTGGCCCTCTCAGCCTGCATAACAGACTGAAATGTGCTCAGGCCCTGGCCAGGAGGGCCCAGG
GTCAATTCTTTTAAACAAAAGGATTATTTTGTGTGTTTAAATTTGTCACTCGGAACCTCAGGATGGAGGACCTGA
CCCTAAGCCTCCTTCAGATCTCTGGCCCAGGCTCAAGCCCTAGAGATGGGCAGGGCCTAGGGGCTGGGAGCTGCC
TGCTGCCATAGCAGCACCTTTAGCTAGGTTGGCCCGAGTGAGGCCTCTGTGCTGTCTGCCCTGCTGCATGGCCT
TAGCTTTCTAGGCCACTGGGAGTTGTGGCTGGGCTTCCCATCTTCCACAGAGACATCTCCCTGTGGGATGGGCAG
ATGGGCCTGGCCTTGAGAAAGGCATTGGCCATTGGTTGCCATGGTGACCAGGGACCACGTTGCTGCCTGTGAATG
CTGAGTGAGCGAGTAAGGGAGGAGGGGCGATTGAGGGTTACCTCTGCCTTGGGGAGGCTGATTTCTCACACACT
GGCTGGCCCTCTCATTCTCACTCCTCCTTGGGCCCTGAGGCTGCTGGATCCGGTCTGCCTGCCCTCCCTGTGCAGT
CCAGCCCTGCCTTGCTGCAGCCCCAGCCCAGATGGCACTCAGCGCTCTCCCTGAGGGAGTCCCTGGGCCTAGCC
ATCCCTCACTATTCCCAGCCAAAGGGTGACTTTTCATCTGAACCTAAGGTGGGAGATATTTTAACTTTTTTC
CACTTTGGAAAATGTCACTGTGACAAAAGCCAGCATACTTTCCCTGCACCCATCTGCTCACCAGATCTCAGGCAG
GAAAGCCCTCTCTGTTGAAGTCAGGGGCTATCTTTTGGTATACTTGTGTGAAAGTGGCTGGTTGGGAGCAGAGC
TAAGTGGCTTCCCATTAACCTGAGGTCTCTTTCTTTACTCTGGGTGAGACCTGAGGTTGGGGAAGGCGACTGAGC
CATGCTCAGAAATGTCTGGCTTGGCTTGGGCTGAGTAGGGCAGAGAGGGCCTTTCATGGCTGATCAGAGCTTAC
CAGCCCCACCCACCATGGTAGCCTTAGGGTGCTGAGTGCTGATACTGCCTGACAAGTGCCTGACACGCAGCCT
AGTTCCTTCTGGCCCTCTCTCACTGGCTGGGAAACCCCTAGACCATGTGAGATAGGACAACACTGCTGGGTTTT
ACATCCAGATAGTAATAAACACCATTTTCATCATT

1242/6881
FIGURE 1156

MDGETAEEQGGPVPPPVPAPGGPGLGGAPGGRREPKKYAVTDDYQLSKQVLGLGVNGKVLECFHRRTGQKCALKLL
YDSPKARQEVDDHHWQASGGPHIVCILDVYENMHGKRCLLIIMECMEGGELFSRIQERGDQAFTEREAAEIMRDI
GTAIQFLHSHNIAHRDVKPENLLYTSKEKDAVLKLTDFGFAKETTQNALQTPCYTPYYVAPEVLGPEKYDKSCDM
WSLGVIMYILLCGFPPFYSENTGQAISPGMKRRIRLGQYGFPNPEWSEVSEDAKQLIRLLLKTDPTERLTITQFMN
HPWINQSMVVPQTPLHTARVLQEDKDHWDEVKEEMTSALATMRVDYDQVKIKDLKTSNNRLLNKRRKKQAGSSA
SQGCNNQ

1243/6881
FIGURE 1157

GGCGGCATTTCCTGGTGTCTGAGCCTGGCGCGGAGGCTATGGGCAGCCAGGAGGTGCTGGGCCACGCGGCCCGGC
TGGCCTCCTCCGGTCTCCTCTGCAGGTGTTGTTTCGGTTGATCACCTTTGTCTTGAATGCATTTATTCTTCGCT
TCCTGTCAAAGGAAATCGTTGGCGTAGTAAATGTAAGACTAACGCTGCTTTACTCAACCACCCTCTTCCTGGCCA
GAGAGGCCTTCCGCAGAGCATGTCTCAGTGGGGGCACCCAGCGAGACTGGAGCCAGACCCTCAACCTGCTGTGGC
TAACAGTCCCCCTGGGTGTGTTTTGGTCCTTATCTCTGGGCTGGATCTGGTTGCAGCTGCTTGAAGTGCTGATC
CTAATGTTGTCCCTCACTATGCAACTGGAGTGGTGTGTTTGGTCTCTCGGCAGTGGTGGAGCTTCTAGGAGAGC
CCTTTTGGGTCTTGGCACAAGCACATATGTTTGTGAAGCTCAAGGTGATTGCAGAGAGCCTGTGCGTAATTCTTA
AGAGCGTTCCTGACAGCTTTTCTCGTGTGTGGTTGCCTCACTGGGGATTGTACATTTTCTCTTTGGCCCAGCTTT
TCTATACCACAGTTCTGGTGTCTGCTATGTTATTTATTTACAAAGTTACTGGGTTCCCCAGAATCAACCAAGC
TTCAAACCTCTTCCTGTCTCCAGAATAACAGATCTGTTACCCAATATTACAAGAAATGGAGCGTTTATAAACTGGA
AAGAGGCTAAACTGACTTGGAGTTTTTTCAAACAGTCTTTCTTGAAACAGATTTTGACAGAAGGCGAGCGATATG
TGATGACATTTTTGAATGATGAACTTTGGTGATCAGGGTGTGTATGATATAGTGAATAATCTTGGCTCCCTTG
TGGCCAGATTAATTTTCCAGCCAATAGAGGAAAGTTTTTATATATTTTTTGCTAAGGTGCTGGAGAGGGGAAAGG
ATGCCACACTTCAGAAGCAGGAGGACGTTGCTGTGGCTGCTGCAGTCTTGGAGTCCCTGCTCAAGCTGGCCCTGC
TGGCCGGCCTGACCATCACTGTTTTTGGCTTTGCCTATTCTCAGCTGGCTCTGGATATCTACGGAGGGACCATGC
TTAGCTCAGGATCCGGTCCTGTTTTGCTGCGTTCTACTGTCTCTATGTTCTCTCTGCTTGCCATCAATGGAGTGA
CAGAGTGTTTCACATTTGCTGCCATGAGCAAAGAGGAGGTCGACAGGTACAATTTTGTGATGCTGGCCCTGTCT
CCTCATTCCTGGTGTTATCCTATCTCTTGACCCGTTGGTGTGGCAGCGTGGGCTTCATCTTGGCCAACCTGCTTTA
ACATGGGCATTTCGGATCACGCAGAGCCTTTGCTTCATCCACCGCTACTACCGAAGGAGCCCCACAGGCCCTTG
CTGGCCTGCACCTATCGCCAGTCCTGCTCGGGACATTTGCCCTCAGTGGTGGGGTTACTGCTGTTTCGGAGGTAT
TCCTCTGTGTGAGCAGGGCTGGCCAGCCAGACTGGCACACATTGCTGTGGGGGCCCTTCTGTCTGGGAGCAACTC
TCGGGACAGCATTTCCTCACAGAGACCAAGCTGATCCATTTCTCAGGACTCAGTTAGGTGTGCCAGACGCACTG
ACAAAATGACATGACTTCAGGGAAGCCTGGACACCCGAGGCACCTGGACCAGCTATGGGTAGTTCTGTGGGTGGA
ACACATTCTGTGTAAGAGCCCCACTGAGGGCTCTGCAGCGGAGTGACAGCAACCCCAAAGATGAGGCACCAGAGA
GTGCCACTGCAIGAGACACCTGTGACCATTGCAAGTCTGAAATGCGGGGGGGAGTTTCATTTTTAAGTGAAGAC
CAAAAGCCCTTTAAAAATAATAGTTTTTTATCATTATAGTAAAAAAAAAAAAAAAAAGGGCGGACCATCAATCAG
CACGCAGCAAGAAAAGCACATTCATACTAGACTATACAAAAAAAAAAAAAAAA

1244/6881
FIGURE 1158

MGSQEV LGHAARLASSG LLLQVLFRLITFVLNAFILRFLSKEIVGVVNVRLTLLYSTTLFLAREAFRRACL SGGT
QRDWSQTLNLLWLTVPLGVFWSLFLGWIWLQLLEVDPNVVPHYATGVVLFGLSAVVELLGEPFWVLAQAHMFVK
LKVIAESLSVILKSVLTAFLVLWLPHWGLYIFSLAQLFYTTVLVLCYVIYFTKLLGSPESTKLQTLPVSRITDLL
PNITRNGAFINWKEAKLTWSFFKQSFLKQILTEGERYVMTFLNVLNFGDQGVYDIVNNLGSILVARLIFQPIEESF
YIFFAKVLERGKDATLQKQEDVAVAAVLESLLKLALLAGLTITVFGFAYSQALDIYGGTMLSSGSGPVLLRSY
CLYVLLLAINGVTECFTFAAMSKEEVDRYNFVMLALSSSFLVLSYLLTRWCGSVGFILANCFNMGIRITQSLCFI
HRYRRSPHRPLAGLHLSPVLLGTFALSGGVTAVSEVFLCCEQGWPARLAHIAVGAFCLGATLGTAFLTETKLIH
FLRTQLGVPRRTDKMT

FIGURE 1159

[illegible]

1246/6881
FIGURE 1160

MESYHKPDQQKLQALKDTANRLRISSIQATTAAGSGHPTSCCSAAEIMAVLFFHTMRYKSQDPRNPHNDRFVLSK
GHAAPILYAVWAEAGFLAEAE LLNLRKISSDLDGHPVPKQAF TDVATGSLGQGLGAACGMAYTGKYFDKASYRVY
CLLGDGELSEGSVWEAMAFASIYKLDNLVAILDINRLGQSDPAPLQHQM DIYQKRCEAFGWHAIIVDGHSVEELC
KAFGQAKHQPTAIIAKTFKGRGITGVEDKESWHGKPLPKNMAEQIIQEIYSQIQSKKKILATPPQEDAPSVDIAN
IRMPSLPSYKVGDKIATR KAYGQALAKLGHASDRIIALDGD TKNSTFSEIFKKEHPDRFIECYIAEQNMVSI AVG
CATRNRTVPFCSTFAAFFTRA FDQIRMAAISESNINLCGSHCGV SIGEDGPSQMALEDLAMFRSVPTSTVFYPSD
GVATEKAVELAANTKGICFIRTSR PENAI IYNNNEDFQVGQAKVVLKSKDDQVTVIGAGVTLHEALAAAELLKKE
KINIRVLDPPFTIKPLDRKLILDSARATKGRILTVEDHYE GGI GEAVSSAVVGE PGITVTHLAVNRVPRSGKPAE
LLKMFGIDRDAIAQAVRGLITKA

1247/6881
FIGURE 1161

AGAAGCCTCCTGGCAGACACTGGAGCCACGATGAAGCCCCAAGGCCTGTCCGTACCTGCAGCAAAGTTCTCGTC
CTGCTTTTCACTGCTGGCCATCCACCAGACTACTACTGCCGAAAAGAATGGCATCGACATCTACAGCCTCACCCTG
GACTCCAGGGTCTCATCCCGATTGCCCCACACGGTCGTACCAGCCGAGTGGTCAATAGGGCCAATACTGTGCAG
GAGGCCACCTTCAGATGGAGCTGCCCCAAGAAAGCCTTCATCACCAACTTCTCCATGATCATCGATGGCATGACC
TACCCAGGGATCATCAAGGAGAAGGCTGAAGCCCAGGCACAGTACAGCGCAGCAGTGGCCAAGGGAAAGAGCGCT
GGCCTCGTCAAGGCCACCGGGAGAAACATGGAGCAGTTCCAGGTGTCGGTCAGTGTGGCTCCCAATGCCAAGATC
ACCTTTGAGCTGGTCTATGAGGAGCTGCTCAAGCGCGTTTGGGGGTGTACGAGCTGCTGCTGAAAGTGCGGCCC
CAGCAGCTGGTCAAGCACCTGCAGATGGACATTACATCTTCGAGCCCCAGGGCATCAGCTTTCTGGAGACAGAG
AGCACCTTCATGACCAACCAGCTGGTAGACGCCCCACACCTGGCAGAATAAGACCAAGGCTCACATCCGGTTC
AAGCCAACACTTTCCCAGCAGCAAAAGTCCCCAGAGCAGCAAGAAACAGTCTTGACGGCAACCTCATTATCCGC
TATGATGTGGACCGGGCCATCTCCGGGGGCTCCATTGAGATCGAGAACGGCTACTTTGTACACTACTTTGCCCCC
GAGGGCCTAACCACAATGCCCAAGAATGTGGTCTTTGTCAATTGACAAGAGCGGCTCCATGAGTGGCAGGAAATC
CAGCAGACCCGGGAAGCCCTAATCAAGATCCTGGATGACCTCAGCCCCAGAGACCAGTTCAACCTCATCGTCTTC
AGTACAGAAGCAACTCAGTGGAGGCCATCACTGGTGCCAGCCTCAGCCGAGAACGTGAACAAGGCCAGGAGCTTT
GCTGCGGGCATCCAGGCCCTGGGAGGGACCAACATCAATGATGCAATGCTGATGGCTGTGCAGTTGCTGGACAGC
AGCAACCAGGAGGAGCGGCTGCCGAAGGGAGTGTCTACTCATCATCTCTGCTCACCAGTGGCGACCCCACTGTG
GGGGAGACTAACCCAGGAGCATCCAGAATAACGTGCGGGAAGCTGTAAGTGGCCGGTACAGCCTCTTCTGCGCTG
GGCTTCGGTTTCGACGTCAGCTATGCCTTCCTGGAGAAGCTGGCACTGGACAATGGCGGCCTGGCCCGGCGCATC
CATGAGGACTCAGACTCTGCCCTGCAGCTCCAGGACTTCTACCAGGAAGTGGCCAACCCACTGCTGACAGCAGTG
ACCTTCGAGTACCCAAGCAATGCCGTGGAGGAGTCACTCAGAACAACCTTCGGCTCCTCTTCAAGGGCTCAGAG
ATGGTGGTGGCTGGGAAGCTCCAGGACCGGGGGCTGATGTGCTCACAGCCACAGTCAGTGGGAAGCTGCCTACA
CAGAACATCACTTTCCAAACGGAGTCCAGTGTGGCAGAGCAGGAGGCGGAGTTCAGAGCCCCAAGTATATCTTC
CACAACCTTCATGGAGAGGCTCTGGGCATACCTGACTATCCAGCAGCTGCTGGAGCAAACTGTCTCCGCATCCGAT
GCTGATCAGCAGGCCCTCCGGAACCAAGCGCTGAATTTATCACTTGCTACAGCTTTGTACAGCCTCTCACATCT
ATGGTAGTCACCAAACCCGATGACCAAGAGCAGTCTCAAGTTGCTGAGAAGCCCATGGAAGGCGAAAGTAGAAAC
AGGAATGTCCACTCAGGTTCCACTTCTTCAAATATTATCTCCAGGGAGCAAAAATACCAAAACCAGAGGCTTCC
TTTTCTCCAAGAAGAGGATGGAATAGACAAGCTGGAGCTGCTGGCTCCCGGATGAATTCAGACCTGGGGTTCTC
AGCTCCAGGCAACTTGGACTCCCAGGACCTCCTGATGTTCTTGACCATGCTGCTTACCACCCCTTCCGCGTCTG
GCCATCTTGCTGCTTCAGCACCAACAGCCACCTCAAATCCTGATCCAGCTGTGTCTCGTGTGATGAATATGAAA
ATCGAAGAAACAACCATGACAACCCAAACCCAGCCCCATACAGGCTCCCTCTGCCATCCTGCCACTGCCTGGG
CAGAGTGTGGAGCGGCTCTGTGTGGACCCAGACACCGCCAGGGGCCAGTGAACCTGCTCTCAGACCTGAGCAA
GGGGTTGAGGTGACTGGCCAGTATGAGAGGGAGAAGGCTGGGTTCTCATGGATCGAAGTGACCTTCAAGAACCCC
CTGGTATGGGTTACGCATCCCTGAACACGTGGTGGTGAATCGGAACCGAAGAAGCTCTGCGTACAAGTGAAG
GAGACGCTATTCTCAGTGATGCCCCGCTGAAGATGACCATGGACAAGACGGGTCTCCTGCTGCTCAGTGACCCA
GACAAAGTGACCATCGGCTGTTGTTCTGGGATGGCCGTGGGGAGGGGCTCCGGCTCCTTCTGCGTGACACTGAC
CGCTTCTCCAGCCACGTTGGAGGGACCTTGGCCAGTTTACCAGGAGGTGCTCTGGGGATCTCCAGCAGCATCA
GATGACGGCAGACGCACGCTGAGGGTTCAAGGCAATGACCACTTGCCACCAGAGAGCGCAGGCTGGATTACCAG
GAGGGGCCCCGGGAGTGGAGATTCTCTGCTGGTCTGTGGAGCTGTAGTTCTGATGGAAGGAGCTGTGCCCAAC
TGTACACTTGCTTCCCCCTGCAACTGCAGGGCCGCTTCTGGGGCTGGACCACCATGGGGAGGAAGAGTCCAC
TCATTACAAATAAGAAAGGTGGTGTGAGCCTGGG

1248/6881

FIGURE 1162

GCGGCCGCCAAGCGATCCCTGCTCCGCGCGACACTGCGTGCCCGCGCACGCAGAGAGGCGGTGACGCACTTTACG
GCGGCAGCGTAAGTGCCTGACGCTCGTCAGTGGCTTCAGTTACACGTGGCGCCAGCGGAGGCAGGTTGATGTGT
TTGTGCTTCTTCTACAGCCAATATGAAAAGGCCTAAGTTAAAGAAAGCAAGTAAACGCATGACCTGCCATAAGC
GGTATAAAATCCAAAAAAGGTTTCGAGAACATCATCGAAAATTAAGAAAGGAGGCTAAAAAGCGGGGTACACAAGA
AGCCTAGGAAAGACCCAGGAGTTCCAAACAGTGTCTCCCTTTAAGGAGGCTCTTCTTAGGGAAGCTGAGCTAAGGA
AACAGAGGCTTGAAGAACTAAACAGCAGCAGAACTTGACAGGCAGAAGGAACTAGAAAAGAAAAGAACTTG
AACTAATCTGTATTAAGCCATCAAATGTGGAACCTATGGAAGGAGTTTGGGCTTTGCAAACTGAGAACA
AAGCCAAGTCGGGCAACAGAAATTCAAAGAAGCTGTACTGCCAAGAACTTAAAAAGGTGATTGAAGCCTCCGATG
TTGTCCTAGAGGTGTTGGATGCCAGAGATCCTCTTGGTTCAGATGTCTTCAGGTAGAAGAGGCCATTGTCCAGA
GTGGACAGAAAAAGCTGGTACTTATATTAAATAAATCAGATCTGGTACCAAAGGAGAATTTGGAGAGCTGGCTAA
ATTATTTGAAGAAAGATTGCCAACAGTGGTGTTCAGAGCCTCAACAAAACCAAAGGATAAAGGGAAGATAACCA
AGCGTGTGAAGGCAAGAAGAATGCTGTCTCCATTGAGAGTGAAGTCTGCTTTGGGAAAGAGGGCCTTTGGAAAC
TTCTTGGAGGTTTTTCAGGAACTTGCGAGCAAGCCATTCCGGTTGGAGTAATTGGTTTTCCCAAATGTGGGAAAA
GCAGCATTATCAATAGCTTAAACAAGAACAGATGTGTAATGTTGGTGTATCCATGGGGCTTACAAGGAGCATGC
AAGTTGTCCCCTTGGACAAACAGATCACAATCATAGATAGTCCGAGCTTCATCGTATCTCCACTTAATTCCTCCT
CTGCGCTTGCTCTGCGAAGTCCAGCAAGTATTGAAGTAGTAAAACCGATGGAGGCTGCCAGTGCCATCCTTTCCC
AGGCTGATGCTCGACAGGTAGTACTGAAATATACTGTCCAGGCTACAGGAATTCTCTGGAATTTTTTACTGTGC
TTGCTCAGAGAAGAGGTATGCACCAAAAGGTGGAATCCCAAATGTTGAAGGTGCTGCCAACTGCTGTGGTCTG
AGTGGACAGGTGCCTCATTAGCTTACTATTGCCATCCCCCTACATCTTGGACTCCTCCTCCATATTTAATGAGA
GTATTGTGGTAGACATGAAAAGCGGCTTCAATCTGGAAGAACTGGAAAAGAACAAATGCACAGAGCATAAGAGCCA
TCAAGGGCCCTCATTGGCCAATAGCATCCITTTCCAGTCTTCCGGTCTGACAAATGGAATAATAGAAGAAAAGG
ACATACATGAAGAATTGCCAAAACGGAAAGAAAGGAAGCAGGAGAGAGGGAGGATGACAAAGACAGTGACCAGG
AAACTGTTGATGAAGAAGTTGATGAAAACAGCTCAGGCATGTTTGTGTCAGAAGAGACAGGGGAGGCACTGTCTG
AGGAGACTACAGCAGGTGAACAGTCTACAAGGTCTTTTATCTTGGATAAAATCATTGAAGAGGATGATGCTTATG
ACTTCAGTACAGATTATGTGTAACAGAACAATGGCTTTTATGATTTTTTTTTTAACATTTTAAGCAGACTGCTA
AACTGTTCTCTGTATAAGTTATGGTATGCATGAGCTGTGTAATTTTGTGAATATGTATTATATTAACCAGGC
AACTTGAATCCCTAAATTCTGTAAAAAGACAATTCATCTCATTGTGAGTGGAAGTAGTTATCTGGAATAAAAAA
AGAAGATACCTATTG

1249/6881

FIGURE 1163A

ACTCTGTCCTGGACAGCGTGCCCAACCAGCCATGGCGGGGCCCCGGGGCCTCCTCCCACTCTGCCTCCTGGCCTTC
TGCCTGGCAGGCTTCAGCTTCGTACAGGGGCGAGGTGCTGTTCAAAGGCTGTGATGTGAAAACACGTTTGTCACT
CATGTACCTTCGACCTCGTGCGCGGCCATCAAGAAGCAGACGTGTCCCTCAGGCTGGCTGCGGGAGCTCCCGGAT
CAGATAACCCAGGACTGCCGCTACGAAGTACAGCTGGGGGGCTCTATGGTGTCCATGAGCGGCTGCAGACGGAAG
TGCCGAAGCAAGTGGTGCAGAAGGCCTGCTGCCCTGGCTACTGGGGTTCCCGGTGCCATGAATGCCCTGGGGGC
GCTGAGACCCCATGCAATGGCCACGGGACCTGCTTGGATGGCATGGACAGGAATGGGACCTGTGTGTGCCAGGAA
AACTTCCGCGGCTCAGCCTGCCAGGAGTGCCAAGACCCCAACCGGTTCCGGCCTGACTGCCAATCGGTGTGCAGC
TGTGTGCACGGAGTGTGCAACCATGGGCCACGTGGGGATGGAAGCTGCCTGTGCTTTGCTGGATACACTGGCCCC
CACTGTGATCAAGAGCTGCCCCGTCTGCCAGGAGCTGCCTGTCCCCAGAACACCCAGTGTCCGCAGAGGCTCCC
AGCTGCAGGTGCCCTGCCCGGCTACACACAGCAGGGCAGTGAATGCCGAGCCCCCAACCCCTGTGGCCATCACCC
TGCTCACTGCTGGCCAGTGTCTCGGTGAGCCCCAAGGGGAGGCTCAGTGTCACTGCCCTGAGAACTACCATGGC
GATGGGATGGTGTCTGCCCCAAGGACCCATGCACTGACAACCTTGGTGGCTGCCCCAGCAACTCTACTTTGTGT
GTGTACCAGAAGCCGGGCCAGGCCTTCTGCACCTGCCGGCCAGGCCTGGTCAGCATCAACAGCAACGCTTCTGCG
GGCTGCTTCGCTTCTGCTCCCCCTTCTCCTGCGACCGGTCTGCCACTTGCCAGGTGACCGCTGATGGGAAGACC
AGCTGTGTGTGCAGGAAAGCGAGGTGGGGGATGGGCGTGCTGCTACGGACACCTGCTCCACGAGGTGCAGAAAG
GCCACGCAGACAGGCCGGGTGTTCTGCACTGAGGGTCCCGGTGGCCATGATGGACAGGGCTGCCGGGAATC
CTTACCACAGCGGGCCCTTTACCGTGTGGTGCCATCCGTCTCCTCCTTCTCCTCCAGGACCATGAATGCATCC
CTTGCCAGCAGCTCTGTAGACAGCACATCATCGAGGGCAGCACATCCTGGAGGACACAAGGACCCAAACA
CGAAGGTGGTGGACGCTGGCCGGCAGGAGATCACCGTCACCTTTAACCATTACGAAATACTCCTACAAGTAC
AAAGACCAGCCCCAGCAGACGTTCAACATCTACAAGGCCAACACATAGCAGTAATGGCGCTTTCACGTGGTC
ACTGGCCTGCGGTGGCAGGCCCCCTCTGGGACCCCTGGGGATCCCAAGAGAACTATCGGACAGATCCTCGCCTCT
ACCGAGGCCTTCAGCCGCTTTGAAACCATCCTGGAGAACTGTGGGCTGCCCTCCATCCTGGACGGACCTGGGGCC
TTCACAGTCTTTGCCCCAAGCAATGAGGCTGTGGACAGCTTGGGTGACGGCCGCTGATCTACCTCTTACAGCG
GGTCTCTCTAAACTGCAGGAGTTGGTGCAGTACCACATCTACAACCACGGCCAGCTGACCGTTGAGAAGCTCATC
TCCAAGGTGCGGATCCTCACCATGGCGAACCAGGTCTGGCTGTGAACATTTCTGAGGAGGGGCGCATCCTGTG
GGACCCGAGGGGGTCCCGCTGCAGAGGGTAGACGTGATGGCCGCAATGGTGTGATCCACATGCTGGACGGCATC
CTGCTGCCCCCGACCATCCTGCCCATCCTGCCAAGCACTGCAGCGAGGAGCAGCAAGATTGTGGCGGGCTCC
TGTGTGGACTGCCAAGCCCTGAACACCAGCACGTGTCCCCCAACAGTGTGAAGCTGGACATCTTCCCCAAGGAG
TGTGTCTACATCCATGACCCAACGGGGCTCAATGTGCTAAAGAAGGGCTGTGCCAGCTACTGCAACCAACCATC
ATGGAACAAGGCTGCTGCAAAGGTTTTTTCGGGCCTGACTGCACGAGTGTCTGCTTCCAGACTACAAGGGCATC
TATGGCAAAGCAATTGCAGTGTGGGATCCAGGGCAATGGGGCTGCCTCTGCTTCCAGACTACAAGGGCATC
GCCTGCCACATCTGCTCGAACCCAACAAGCATGGAGAGCAATGCCAGGAAGACTGCGGCTGTGTCCATGGTCTC
TGCGACAACCGCCAGGACGTGGGGGGGTGTGCCAGCAGGGCACGTGTGCCCTGGCTTCAGTGGCCGGTTCTGC
AACGAGTCCATGGGGGACTGTGGGGCCACAGGGCTGGCCACGACTGCCACCTGCATGCCCGCTGTGTAGCCAG
GAGGGTGTGGCAGATGTGCTGTCTTGTATGGCTTTGAGGGTGTGGCTTCTCCTGCACACCTAGCAACCCCTGC
TCCACCCCGACCGTGGAGGCTGCTCAGAGAACTGTGAGTGTGTCCCTGGGTCCCTGGGCACCCACCACTGCACA
TGCCACAAAGGCTGGAGTGGGGATGGCCGCGTCTGTGTGGCTATTGACGAGTGTGAGCTGGACATGAGAGGTGGC
TGCCACACCGATGCCCTCTGCAGCTATGTGGGCCCCGGGCAGAGCCGATGCACCTGCAAGCTGGGCTTTGCCGGG
GATGGCTACCACTGCAGCCCCATCGACCCCTGCCGGGCAGGCAATGGCGGCTGCCACGGCCTGGCCACCTGCCGG
CGAGTGGGGGGAGGTGAGCGGCTGTGCAGTGTCCCCCTGGCTTTGGGGGTGATGGCTTCAGCTGTTATGGAGAC
ATCTTCCGGGAGCTGGAGGCAAATGCCCACTTCTCCATCTTCAACATGGCTTAAGAGTGGCGGCATCACGCTT
CCTGCCGACCGCCGAGTCACAGCCCTGGTGCCCTCCGAGGCTGCAGTCCGTCAGCTGAGCCCCGAGGACCGAGCT
TTCTGGCTGCAGCAAGGACGCTGCCGAACCTGGTCAGGGCCCATTTTCTCCAGGGTGCCCTCTTCGAGGAGGAG
CTGGCCCCGGCTGGGTGGGCAGGAAGTGCCACCCCTGAACCCACACACGCTGGGAGATTGCGAACATTAGTGGG
AGGGTCTGGGTGCAGAATGCCAGCGTGATGTGGCTGACCTCCTTGCCACCAACGGTGTCTACACATCCTCAGC
CAGGTCTTACTGCCCCCGAGGGGATGTGCCCGGTGGGCAGGGGTTGCTGCAGCAGCTGGACTGGTGCCTGCC
TTCAGCCTCTTCCGGGAATTGCTGCAGCACCATGGGTGGTGCCCCAGATTGAGGCTGCCACTGCCTACACCATC
TTTGTGCCCAACCGCTCCCTGGAGGCCAGGGCAACAGCAGTCACCTGGACGCAGACACAGTGCGGCACCAT

1250/6881

FIGURE 1163B

GTGGTCCTGGGGGAGGCCCTCTCCATGGAACCCCTGCGGAAGGGTGGACACCGCAACTCCCTCCTGGGCCCTGCC
CACTGGATCGTCTTCTACAACCACAGTGGCCAGCCTGAGGTGAACCATGTGCCACTGGAAGGCCCCATGCTGGAG
GCCCCCTGGCCGCTCGCTGATTGGTCTGTGCGGGGTCTGACGGTGGGCTCAAGTCGCTGCCTGCATAGCCACGCT
GAGGCCCTGCGGGAGAAATGTGTAACTGCACCAGGAGATTCCGCTGCACTCAGGGCTTCCAGCTGCAGGACACA
CCCAGGAAGAGCTGTGTCTACCGATCTGGCTTCTCCTTCTCCCGGGGCTGCTCTTACACATGTGCCAAGAAGATC
CAGGTGCCGGACTGCTGCCCTGGTTCTTTGGCACGCTGTGTGAGCCATGCCCAGGGGGTCTAGGGGGGGTGTGC
TCAGGCCATGGGCAGTGCCAGGACAGGTTCTTGGGCAGCGGGGAGTGCCACTGCCACGAGGGCTTCCATGGAACG
GCCTGTGAGGTGTGTGAGCTGGGCCCTACGGGCCCAACTGCACCGGAGTGTGTGACTGTGCCCATGGGCTGTGC
CAGGAGGGGCTGCAAGGGGACGGAAGCTGTGTCTGTAACTGGGCTGGCAGGGCCTCCGCTGTGACCAGAAAATC
ACCAGCCCTCAGTGCCCTAGGAAGTGCAGCCCAATGCCAACTGCGTGCAAGGACTCGGCCGGAGCCTCCACCTGC
GCCTGTGCTGCGGGATACTCCGGCAATGGCATCTTCTGTTCAGAGGTGGACCCCTGCGCCCACGGCCATGGGGG
TGCTCCCCCTCATGCCAACTGTACCAAGGTGGCACCTGGGCAGCGGACATGCACCTGCCAGGATGGCTACATGGG
GACGGGGAGCTGTGCCAGGAATTAACAGCTGTCTCATCCACCACGGGGGCTGCCACATTCACGCCGAGTGCATC
CCCCTGGCCCCCAGCAGGTCTCCTGCAGCTGCCGTGAGGGTTACAGCGGGGATGGCATCCGACCTGCGAGCTC
CTGGACCCCTGCTCTAAGAACAATGGAGGATGCAGCCCATATGCCACCTGCAAAAGCACAGGGGATGGCCAGAGG
ACATGTACCTGCGACACAGCCACACCGTGGGGGACGGCCTCACCTGCCGTGCCCGAGTCGGCCTGGAGCTCCTG
AGGGATAAGCATGCCTCATTCTTCAGCCTCCGCTCCTGGAATATAAGGAGCTCAAGGGCGATGGGCCTTTCACC
ATCTTCGTGCCGCACGCAGATCTAATGAGCAACCTGTGCGAGGATGAGCTGGCCCGGATTCTGCGCATCGCCAG
CTGGTGTTCGCTACACGTTGGTGTGTCGGCGGCTGCGGAGCGAGGACCTGCTGGAGCAGGGGTACGCCACG
GCCCTCTCAGGGCACCCACTGCGCTTACAGCGAGAGGGAGGGCAGCATATACCTCAATGACTTCGCGCGCTGGTG
AGCAGCGACCATGAGCCGTGAACGGCATCCTGCACTTCATTGACCGTGTCTGCTGCCCCCGAGGCGCTGCAC
TGGGAGCCTGATGATGCTCCCATCCGAGGAGAAATGTACCCGCCCGCCAGGGCTTCGGTTACAAGATCTTC
AGCGGCCTCCTGAAGGTGGCCGGCCTCCTGCCCTGCTTCGAGAGGCATCCCATAGGCCCTTCACAATGCTGTGG
CCCACAGACGCCGCCCTTTCGAGCTCTGCCCTCCGGATCGCCAGGCCTGGCTGTACCATGAGGACACCGTGACAAG
CTAGCAGCCATTCTGCGGGGCCACATGATTGCAATGTGAGGCCTTGGCATCTGACCTGCCCAACCTGGGCCCCA
CTTCGAACCATGCATGGGACCCCCATCTCTTCTCCTGCAGCCGAACGCGGGCCGGTGAGCTCATGGTGGGTGAG
GATGATGCTCGCATTGTGCAGCGGCACTTGGCCTTTGAGGGTGGCCTGGCCTATGGCATCGACCAGCTGCTGGAG
CCACCTGGCCTTGGTGTCTGCTGTGACCACTTTGAGACCGGCCCTGCGACTGAACACCTGCAGCATCTGTGGG
CTGGAGCCACCCTGTCTGAGGGGTACAGGAGCAGGGCAGCCCTGAGGCCTGCTGGCGCTTCTACCCGAAGTTC
TGGACGTCCCCCTCCGCTGCACTCTTTGGGATTACGCAGCGTCTGGGTCCACCCAGCCTTTGGGGTAGGCCCAA
GGCCTGGGCAGGGGCTGCCACCGCAATTGTGTACCAACACCTGGAAGCCCAGCTGCTGCCCTGGTCACTATGGC
AGTGAGTGCCAAGCTTGCCCTGGCGGCCCCAGCAGCCCTTGTAGTGACCGTGGCGTGTGCATGGACGGCATGAGT
GGCAGTGGGCAGTGTCTGTGCGGTTTCAAGTTTTGCTGGGACAGCCTGTGAACCTCTGTGCTCCTGGTGCCCTTGGG
CCCCATTGTCAAGCCTGCCGCTGCACTGTGCATGGCCGCTGTGATGAGGGCCTTGGGGCTCTGGCTCCTGCTTC
TGTGATGAAGGCTGGACTGGGCCACGCTGTGAGGTGCAACTGGAGCTGCAGCCTGTGTGTACCCACCCCTGTGCA
CCCCAGGCTGTGTGCCGTGCAGGCAACAGCTGTGAGTGCAGCCTGGGCTATGAAGGGGATGGCCGTGTGTGTACA
GTGGCAGACCTGTGCCAGGACGGGCATGGTGGCTGCAGTGAGCAGCAGCCAACTGTAGCCAGGTAGGAACAATGGTC
ACTTGTACCTGCCTGCCCGACTACGAGGGTGTGGCTGGAGCTGCCGGGCGCCGCAACCCCTGCACAGATGGCCAC
CGCGGGGGGCTGCAGCGAGCACGCCAACTGCTTGAGCACCGGCCTGAACACACGGCGCTGTGAGTGCCACGCAGGC
TACGTAGGCGATGGACTGCAGTGTCTGGAGGAGTCGGAACCACTGTGGACCGCTGCTTGGGCCAGCCACCGCCC
TGCCACTCAGATGCCATGTGCACTGACCTGCACTTCCAGGAGAAACGGGCTGGCGTTTTCCACCTCCAGGCCACC
AGCGGCCCTTATGGTCTGAACTTTTCGGAGGCTGAGCGGCATGCGAAGCACAGGGAGCCGCTCCTTGCTTCATT
CCTCAGCTCTCTGCTGCCAGCAGCTGGGCTTCCACCTGTGCCTCATGGGCTGGCTGGCCAATGGCTCCACTGCC
CACCTGTGGTTTTCCCTGTGGCGGACTGTGGCATGGTTCGGGTGGGCATAGTCAGCCTGGGTGCCCGCAAGAAC
CTCTCAGAACGCTGGGATGCCACTGCTTCCGTTGTGAAGATGTGGCCTGCCGATGCCGAAATGGCTTCGTGGGT
GACGGGATCAGCACGTGCAATGGGAAGCTGCTGGATGTGCTGGCTGCCACTGCCAACTTCTCCACCTTCTATGGG
ATGCTATTGGGCTATGCCAATGCCACCCAGCGGGTCTCGACTTCTGGACTTCTGGATGATGAGCTCACGTAT
AAGACACTCTTCGTCCCTGTCAATGAAGGCTTTGTGGACAACATGACGCTGAGTGGCCAGACTTGGAGCTGCAT

1251/6881

FIGURE 1163C

GCCTCCAACGCCACCCTCCTAAGTGCCAACGCCAGCCAGGGGAAGTTGCTTCCGGCCCACTCAGGCCTCAGCCTC
ATCATCAGTGACGCAGGCCCTGACAACAGTTCCTGGGCCCCTGTGGCCCCAGGGACAGTTGTGGTTAGCCGTATC
ATTGTGTGGGACATCATGGCCTTCAATGGCATCATCCATGCTCTGGCCAGCCCCCTCCTGGCACCCCCACAGCCC
CAGGCAGTGCTGGCGCCTGAAGCCCCACCTGTGGCGGCAGGCGTGGGGGCTGTGCTTGCCGCTGGAGCACTGCTT
GGCTTGGTGGCCGGAGCTCTCTACCTCCGTGCCCAGGCAAGCCCATGGGCTTTGGCTTCTCTGCCTTCCAGGCG
GAAGATGATGCTGATGACGACTTCTACCGTGCCAAGAAGGGACCAACCCACCCTGGTCTCTGTCCCCAACCT
GTCTTTGGCAGCGACACCTTTTGTGAACCCTTCGATGACTCACTGCTGGAGGAGGACTTCCCTGACACCCAGAGG
ATCCTCACAGTCAAGTGACGAGGCTGGGGCTGAAAGCAGAAGCATGCACAGGGAGGAGACCACTTTTATTGCTTG
TCTGGGTGGATGGGGCAGGAGGGGCTGAGGGCCTGTCCAGACAATAAAGGTGCCCTCAGCGGATGTGGGC

1252/6881
FIGURE 1164

MAGPRGLLPCLLAFCLAGFSFVRGQVLFKGC DVKTTFTVTHVPTSCAAIKKQTCPSGWLRELPDQITQDCRYEV
QLGGSMVSMGCRKCRKQVVQKACCPGYWGSRCHECPGGAETPCNGHGTCLDGM DRNGTCVCQENFRGSACQEC
QDPNRFPGDCQSVSCVHGVCNHGPRGDGSCLCFAGYTGFHCDQELPVCQELRCPQNTQCSAEAPSCRCLPGYTQ
QGSECRAPNCPWPSPCSLLAQCSVSPKGQAQCHCPENYHGDGMVCLPKDPC T DN LGGCP SNSTLCVYQKPGQAF C
TCRPGLV SINSNASAGCF AFCS PFSCDRSATCQVTADGKTSCVCRESEVGDGRACYGHLLHEVQKATQTGRVFLQ
LRVAVAMMDQGCREILTTAGPFTVLVPSVSSFSRTMNASLAQQLCRQHIIAGQHILEDTRTQOTRRWWTLAGQE
ITVTFNQFTKYSYKYKDQFQOTFNIYKANNIAANGVFHVVTGLRWQAPSGTPGDPKRTIGQILASTEAFSRFETI
LENCGLPSILDGPGPFTVFAPSNEAVDSL RDGRLIYLF TAGLSKLQELVRYHIYNHGQLTVEKLISKGRILTMAN
QVLAVNISEEGRILLGPEGVPLQRVDVMAANGVIHMLDGI LLPTILPILPKHCSEEQHKIVAGSCVDCQALNTS
TCPPNSVKLDIFPKECVYIHDPTGLNLVKKGCASYCNQTIMEQGCKGFFGPDCTQCPGGFSNFCYKGNCS DGI
QNGACLCFPDYKGIACHICSNPNKHGEQCQEDCGCVHGLCDNRPGSGGVCQQTGCAPGFSGRFCNESMGDCGPT
GLAQHCHLHARCVSQEGVARCRCLDGFEGDGF SCTPSNPCSHPD RGGSSENAECVPGSLGTHHCTCHKGWSGDGR
VCVAIDECELDMRGGCHTDALCSYVGPQSRCTCKLGFAGDGYQCSPIDPCRAGNGGCHGLATCRAVGGGQRVCT
CPPGFGDGFSCYGDIFRELEANAHFSIFYQWLKSAGITLPADRRVTALVPSEAAVRQLSPEDRAFWLQPRTL PN
LVRAHFLOGALFEEELARLGGQEVATLNPTTRWEIRNISGRVWVQNASVDVADLLATNGVLHILSQVLLPPRGDV
PGGQGLLQQLDLVPAFSLFREL LQHHLVLPQIEAATAYTIFVPTNRSLEAQGNSSHL DADTVRHHVVLGEALSME
TLRKGHRNSLLGPAHWIVFYNHSGQPEVNHPVLEGPML EAPGRSLIGLSGVLTVGSSRCLHSHAEALREKCVNC
TRRFRCTQGFQLQDTPRKSCVYRS GFSFSRGCSYTC AKKIQVPDCCPGFFGTLC EPCPGGLGGVCSGHGQCQDRF
LGSGECHCHEGFGHTACEVCELGRYGP NCTGVCDCAHGLCQEG LQGDGSCVCNVGWQGLRCDQKITSPQCPRKCD
PNANCVQDSAGASTCACAAGYSGNGIFCSEVDP CAHGHGGCSPHANCTKVAPGQRTCTCQDGYMGD GELCQEINS
CLIHGGCHIHAECIPTGPQQVSCSCREGYSGDGIRTC ELLDPCSKNNGGCSPYATCKSTGDGQRTCTCDTAHTV
GDGLTCRARVGLELLRDKHASFFSLRLLEYKELKGDGFFTIFVPHADLMSNLSQDELARIRAH RQLVFRYHVVG C
RRLRSEDLLEQGYATALSGHPLRF SEREGSIYLNDFARVVSSDHEAVNGILHFIDRVLLPPEALHWEPPDAP IPR
RNVTAA AQFGYKIFSGLLKVAGLLP LLLREASHRPFTMLWPTDAAFRALPPDRQAWLYHEDHRDKLAAILRGHMI
RNVEALASDLPNLGLPLRTMHGTPISFSCSRTRAGELMVGEDDARI VQRHLPFEGGLAYGIDQ LLEPPGLGARCDH
FETRPLRLNTCSICGLEPFCPEGSQE QGSPEACWRFPYKFWTSPPLHSLGLRSVWVHPSLWGRPQGLGRGCH RNC
VTTTWKPSCCPGHYGSECQACPGGPSSPCSDRGVCM DGMMSGQCLCRSGFAGTACELCAPGAFGPHCQACRCTV
HGRCEGLGGSGSCFCDEGWTGPRCEVQLELQPVCTPPCAPEAVCRAGNSCECSLGYEGDGRVCTVADLCQDGHG
GCSEHANCSQVGTMTCTCLPDYEGDGWSCRARNPCTD GHRGGCSEHANCLSTGLNTRRCECHAGYVGDGLQCLE
ESEPPVDRCLGQPPPCHSDAMCTDLHFQEK RAGVFH LQATSGPYGLNFSEAEAAACEAQGAVLASFPQLSAAQQLG
FHLCLMGWLANGSTAHPVFPVADCGNGR VGI VSLGARKNL SERWDAYCFRVQDVACRCRNGFVG DGI STCNGKL
LDVLAATANFSTFYGM LLYANATQRGLDFLDFLDDELTYKTLFVPVNEGFDNMTLSGPDLELHASNATLLSAN
ASQ GKLLPAHSGLSLIISDAGPDNSSWAPVAPGT VVVSRIIVWDIMAFNGIIHALASPLLAPPQQA VLAPEAPP
VAAGVGAVLAAGALLGLVAGALYLRARGKPMGF GFSAFQAEDDADDDFSPWQEGTNPTLVSVPNPVFGSDTFCEP
FDSILLEEDFPDTQRILTVK

1253/6881

FIGURE 1165A

GCGGCGGTGGCGGCGGAGACCCGAACATGGCGACCGCGGCACCTTCGGGCCCCGAGCGGGAAGCCGAGCCGGCCA
AGGAAGCGCGCTCGTGGGCTCGGAGCTTGTGGACACTTATACGGTTTACATCATCCAGGTCAGTGATGGCAGCC
ATGAGTGGACAGTAAGCACCCTACAGCGACTTCCATGACCTGCATGAAAAGCTCGTTGCAGAGAGAAAGATTG
ATAAAAACCTGCTTCCGCCCCAAAAGATAATTGGGAAAACTCAAGAAGCTTGGTGGAGAAGAGGGAGAAGGATC
TGGAGGTCTACCTCCAGAAGCTCCTGGCTGCCTTCCCTGGCGTGACCCCCAGAGTACTGGCCCACTTCTTGCATT
TTCACCTTCTATGAGATAAATGGCATCACCGCGGCACTGGCTGAAGAGCTCTTTGAGAAAGGAGAACAGCTCCTGG
GGGCGGCGAGGTCTTTGCCATTGGACCCCTGCAGCTGTATGCCGTACCGAGCAGCTGCAGCAGGGAAAGCCCA
CGTGCGCCAGTGGGGATGCCAAGACCGACCTCGGGCACATCCTGGACTTCACCTGTCGCCTTAAGTACCTTAAGG
TTTCTGGCACAGAAGGACCTTTTGGGACCAGCAACATTACAGGAGCAGCTCCTGCCGTTGCACCTATCAATATTCA
AGTCCCTGCATCAGGTGGAGATAAGTCACTGTGATGCTAAGCACATCAGAGGGCTGGTCGCATCGAAGCCCACT
TAGCCACGCTGAGTGTCCGCTTCTCAGCAACCTCGATGAAGGAAGTCTTGTTCCTGAAGCCTCAGAAATTGATG
AGTGGGAGCCTGAAGGCACAACCTTAGAAGGCCCTGTGACTGCCGTATCCCCACTTGGCAGGCATTGACCACGC
TTGACCTGAGCCACAACAGCATCTCCGAGATCGACGAGTCTGTGAACTGATCCAAAGATTGAGTTCTTGGACC
TGAGTCACAATGGATTGCTGGTTGTGGACAATCTGCAGCACCTGTATAACCTTGTGCATCTGGACCTGTCTTACA
ACAAGCTCTCCTCCTTGAAGGGCTTACACCAAGCTGGGGAACATCAAGACCTTAAACCTGGCAGGCAACCTCC
TAGAGAGTCTGAGTGGCCTGCACAAGCTCTACTCACTGGTCAACCTGGATCTCCGGGACAACAGGATCGAACAGA
TGGAGGAGGTCCGGAGCATAGGCAGCCTCCCGTGTCTGGAGCACGTGTCTCTGCTGAACAACCCCTCTGAGCATCA
TCCCGACTACCGGACCAAGGTGCTGGCTCAGTTCCGGAGAGAGGGCCTCAGAGGTCTGTCTGGATGACACAGTGA
CCACAGAGAAGGAGCTGGACACTGTGGAAGTGCTGAAAGCAATTAGAAAGCCAAGGAGGTCAAGTCCAACTGA
GCAACCCAGAGAAGAAGGGTGGTGAAGACTCCCGGCTCTCAGCTGCCCCCTGCATCAGACCCAGCAGCTCCCCCTC
CCACTGTGGCTCCCGCATCTGCCTCCCTGCCCCAGCCCCATCTCTCTAACCAAGGAATCATGTTCTCAGGAGG
AGGCCCTGGCCAGCAGCCTCTCGTCCACTGACAGTCTGACTCCCGAGCACCAGCCCCATTGCCAGGGATGTTCTG
ATTCTTGGAGTCCATCCCTGCGGGACAGGCAGCTTCCGATGATTTAAGGGACGTGCCAGGAGCTGTTGGTGGTG
CAAGCCAGAACATGCCGAGCCGGAGGTCCAGGTGGTGGCGGGGTCTGGCCAGATCATCTTCTGCCCTTACCT
GCATTGGCTACACGGCCACCAATCAGGACTTCATCCAGCGCTGAGCACACTGATCCGGCAGGCTGTTGGTGGTG
AGCTGCCTGCCTGGATCGAGGCTGCCAACCAGCGGGAGGAGGGCCAGGGTGAACAGGGCAGGAGGAGGAGGAGG
AGGAGGAAGAAGAGGAGGAGCTGGCTGAGAACCGCTACTTTGAAATGGGGCCCCAGACGTGGAGGAGGAGGAGG
GAGGAGGCCAGGGGGAGGAAGAGGAGGAGGAAGAGGAGGATGAAGAGGCCGAGGAGGAGCGCCTGGCTCTGGAAT
GGGCCCTGGCGCGGACGAGGACTTCTGTGAGGACATCCGCATCCTCAAGGTGCTGTGGTGTCTTCTGATCC
ATGTGCAGGCGAGTATCCGCCAGTTGCGCCCTGCCTTGTGCTACCGACTTCGGCATCGCAGTCTTCGAGATCC
CGCACCAGGAGTCTCGGGGACAGCCAGCACATCCTCTCCTCCTGCGCTTTGTCTTTTGTCTTCCGATGGCG
ACCTCACCAGTTTGGCTTCTCATGCCGAGCTGTGTCTGGTGTCAAGGTACGGCACAGTGAGAACAGCTCT
TCATTATCTCGGACGCCGCCAACCTGCACGAGTTCCACGCGGACCTGCGCTCATGCTTTGCACCCAGCACATGG
CCATGCTGTGATGCCCCATCCTCTACGGCAGCCACACAGCCTGCAGGAGTTCTGCGCCAGCTGCTCACCTTCT
ACAAGGTGGCTGGCGGCTGCCAGGAGCGCAGCCAGGGCTGCTTCCCGTCTACCTGGTCTACAGTGACAAGCGCA
TGGTGCAGACGGCCGCCGGGACTACTCAGGCAACATCGAGTGGGCCAGCTGCACACTCTGTTACGCCGTGCGGC
GCTCCTGCTGCGCGCCCTCTGAGGCCGTCAAGTCCGCCGCCATCCCCACTGCTGTTGCTACGCCCCAGCACC
TCAACGTATCAAGGCCGACTTCAACCCCATGCCCAACCGTGGCACCCACAAGTGTGCAACCGCAACAGCTTCA
AGCTCAGCCGTGTGCCGTCTCCACCGTGTGCTGGACCCACACGAGCTGTACCCAGCCTCGGGGCGCCTTG
CTGATGGCCACGTGCTAGAGCTGCTCGTGGGGTACCGCTTTGTCACTGCCATCTTCGTGTGCCCCACGAGAAGT
TCCACTTCTTGCCTGTCTACAACAGCTGCGGGCCTCGCTGCAGGACCTGAAGACTGTGGTTCATGCCAAGACCC
CCGGGACGGGAGGAGCCCCAGGGCTCCTTTGCGGATGGCCAGCCTGCCAGCGCAGGGCCAGCAATGACCAGC
GTCCCCAGGAGGTCCCAGCAGAGGCTCTGGCCCCGGCCCCAGTGAAGTCCCAGCTCCAGCCCCGACGAGCCT
CAGCCTCAGGCCACGGAAGACTCCGGCCCCAGCAGGCCCCCAACTTCAGCTTTGGTCCCAGAGGAGACGCCAG
TGAAGCTCCAGCCCCACCCAGCCAGGCCCCCTCAACTTCAGCTTTGGTCCCAGAGGAGACGCCAG
AGGAGAATCAGATCCCCCTGCACTTGCCTGCCTGCCGTGCTGCCGACGTGCCAGCCTGCGGGGACGCCCA
TCATCGAGCTCTTCCACAGCAGCATTGTGAGGTTGAAAACGAGGAGCTGAGGCACCTCATGTGGTCTCGGTGG
TGTTCTACCAGACCCAGGGCTGGAGGTGACTGCCTGCGTGCTGCTCTCCACCAAGGCTGTGTACTTTGTGCTCC

1254/6881
FIGURE 1165B

ACGACGGCCTCCGCCGCTACTTCTCAGAGCCACTGCAGGATTCTTGGCATCAGAAAAACACCGACTACAACAACA
GCCCTTTCACATCTCCAGTGCTTCGTGCTAAAGCTTAGTGACCTGCAGTCAGTCAATGTGGGGCTTTTCGACC
AGCATTTCCGGCTGACGGGTTCCACCCGATGCAGGTGGTCACGTGCTTGACGCGGGACAGCTACCTGACGCACT
GCTTCCTCCAGCACCTCATGGTCGTGCTGCTCTCTGGAACGCACGCCCTCGCCGGAGCCTGTTGACAAGGACT
TCTACTCCGAGTTTGGGAACAAGACCACAGGGAAGATGGAGAAGTACGAGCTGATCCACTCTAGTCGCGTCAAGT
TTACCTACCCAGTGAGGAGGAGATTGGGGACCTGACGTTCACTGTGGCCCAAAGATGGCTGAGCCAGAGAAGG
CCCCAGCCCTCAGCATCCTGCTGTACGTGCAGGCCTTCCAGGTGGGCATGCCACCCCTGGGTGCTGCAGGGGCC
CCCTGCGCCCCAAGACACTCCTGCTCACCAGCTCCGAGATCTTCTCCTGGATGAGGACTGTGTCCACTACCCAC
TGCCCCGAGTTTGCCAAAGAGCCGCCGAGAGAGACAGGTACCGGCTGGACGATGGCCGCCGCGTCCGGGACCTGG
ACCGAGTGCTCATGGGCTACCAGACCTACCCGCAGGCCCTCACCCTCGTCTTCGATGACGTGCAAGGTCATGACC
TCATGGGCAGTGTCACCCTGGACCACTTTGGGGAGGTGCCAGGTGGCCCGGCTAGAGCCAGCCAGGGCCGTGAAG
TCCAGTGGCAGGTGTTTGTCCCCAGTGCTGAGAGCAGAGAGAAGCTCATCTCGCTGTTGGCTCGCCAGTGGGAGG
CCCTGTGTGGCCGTGAGCTGCCTGTGAGCTCACC GGCTAGCCAGGCCACAGCCAGCCTGTGCTGTCCAGCCTG
ACGCCTACTGGGGCAGGGCAGCAGGCTTTTGTGTTCTCTAAAAATGTTTTATCCTCCCTTTGGTACCTTAATTTG
ACTGTCTCGCAGAGAATGTGAACATGTGTGTGTGTTGTTAATTCTTTCTCATGTTGGGAGTGAGAATGCCGG
GCCCTCAGGGCTGTGCGGTGTGCTGTGAGCCTCCACAGGTGGTACAGCCGTGCACACCAGTGTCGTGCTGCTG
TTGTGGGACCGTTGTTAACACGTGACACTGTGGGTCTGACTTTCTCTTCTACACGTCCTTTCTGAGTGTCGAG
TCCAGTCCCTTTGTTGCTGTTGCTGTTGCTGTTGCTGTTGGCATCTTGCTGCTAATCCTGAGGCTGGTAG
CAGAATGCACATTGGAAGCTCCACCCCATATTGTTCTTCAAAGTGGAGGTCTCCCTGATCCAGACAAGTGGGA
GAGCCCGTGGGGGCAGGGGACCTGGAGCTGCCAGCACCAAGCGTGATTCTGTGCTGCTGATTCTCTATTCCAAT
AAAGCAGAGTTTGACACCGTCTTAAAAAAA

1255/6881
FIGURE 1166

MATARTFGPEREAEPKAEARVVGSELVDITYTVYIIQVTDGSHEWTVKHRYSDFDLHEKLVAERKIDKNLLPPKK
IIGKNSRSLVEKREKDLVYLQKLLAAPGVTPRVLAHFLHFHFEINGITAALAEELFEKGEQLLGAGEVFAIG
PLQLYAVTEQLQQGKPTCASGDAKTDLGHILDFTCRLKYLKVSGETEGPFGTSNIEQLLPFDLSIFKSLHQVEIS
HCDAKHIRGLVASKPTLATLSVRF SATSMKEVLVPEASEFDEWEPEGTTLLEGPVTAIVIPTWQALTTDLSHNSIS
EIDESVKLIPKIEFLDLSHNGLLVVDNLQHLNVLVHLDLSYNKLSLEGLHTKLGNIKTLNLAGNLESLSGLHK
LYSLVNLDLRDNRIEQMEEVRSIGSLPCLEHVSLNNPLSIIPDYRTKVLAQFGERASEVCLDDTVTTEKELDTV
EVLKAIQKAKEVKSLSNPEKKGEDSRLSAAPCIRPSSSPPTVAPASASLPQPILSNQGIMFVQEEALASSLSS
TDSLTPEHQPIAQGCSDSLESIPAGQAASDDL RDVP GAVGGASPEHAEPEVQVVP GSGQIIFLPFTCIGYTATNQ
DFIQRLSTLIRQAIERQLPAWIEAANQREEGQGEQGEEDDEEEEEEDVAENRYFEMGPPDVEEEE GGGQGEED
EEEEDEEAEEERLAEWALGADEDFLEHIRILKVLWCFLIHVQGSIRQFAACLVLTD FGI AVFEIPHQESRGSS
QHILSSLR FVFCFPHGDLTEFGFLMPELCLVLKVRHSENTLFIISDAANLHEFHADLRSCFAPQHMMAMLCSPILY
GSHTSLQEFLRQLLTFYKVAGGCQERSQGCFFVYLVS DKRMVQTAAGDYSGNIEWASCTLC SAVRRSCCAPSEA
VKSAAIPYWLLLPQHNLVIKADFNPMFNRGTHNCRNRNSFKLSRVPLSTVLLDPTRSC TQPRGAFADGHVLELL
VGYRFVTAIFVLPHEKFHFLRVYNQLRASLQDLKTVVIAKTPGTGGSPQGSFADGQPAERRASNDQRPQEVPAEA
LAPAPVEVPAPAPAAASASGPAKTPAPAEASTSALVPEETPVEAPAPPPAEAPAQYPSEHLIATSEENQIPSHL
PACPSLRHVASLRGSAIIELFHSSIAEVENEEELRHLMWSSVVFYQTPGLEVTACVLLSTKAVYFVLHDGLRRYFS
EPLQDFWHQKNTDYNNSPFFHISQCFVLKLSDLQSVNVGLFDQHFRLTGSTPMQVVTCLTRDSYLT HCF LQHLMVV
LSSLERTPSPEPVDKDFYSEFGNKT TGK MENYELIHSSRVKFTYPSEEEIGDLTFTVAQKMAEPEKAPALSILLY
VQAFQVGMPPPGCCRGPLRPKTLTLLTSSEIFLLDEDCVHYELPEFAKEPPQRDRYRLDDGRRVRDLDRVLMGYQT
YPQALTLVFDVQGHDLMGSVTL DHFGEVPGGPARASQGREVQWQVFP SAESREKLISLLARQWEALCGREL PV
ELTG

1256/6881
FIGURE 1167

GGCACGAGGAGCGTTTCGTTTGGACTTCTCGACTTGAGTGCCCCGCCTCCTTCGCCGCCGCTCTGCAGTCCTCAG
CGCAGTTATGCCCAGTTCTTCCCGCTGTGGGGACACGACCACGGAGGAATCCTTGCTTCAGGGACTCGGGACCCCT
GCTGGACCCCTTCTCGGGTTTAGGGGATGTGGGGACCAGGAGAAAGTCAGGATCCCTAAGAGTCTTCCCTGCCT
GGATGGATGAGTGGCTTCTTCCACCTAGATTCTTCCACAGGAGCCAGCATACTTCTGAACATGGAGAGTGT
TGTTCCGCCGTGCCATTCTTATCCCGAGTCCCCAGGCCTTTCTGCAGAAAGCAGGCAAATCTCTGTTGTTCTA
TGCCCAAACTGCCCAAGATGATGGAAGTTGGGGCCAAGCCAGCCCCCTCGGGCATTGTCCACTGCAGCAGTACA
CTACCAACAGATCAAAGAAACCCCTCCGGCCAGTGAGAAAGACAAAAGTCTAAGGCCAAGGTCCAACAGACTCC
TGATGGATCCCAGCAGAGTCCAGATGGCACACAGCTTCCGTCTGGACACCCCTTGCTGCCACAAGCCAGGGCAC
TGCAAGCAAATGCCCTTTCCTGGCAGCACAGATGAATCAGAGAGGCAGCAGTGTCTTCTGCAAAGCCAGTCTTGA
GCTTCAGGAGGATGTGCAGGAAATGAATGCCGTGAGGAAAGAGGTTGCTGAAACCTCAGCAGGCCCCAGTGTGGT
TAGTGTGAAAACCGATGGAGGGGATCCAGTGGACTGCTGAAGAACTTCCAGGACATTATGCAAAAGCAAAGACC
AGAAAGAGTGTCTCATCTTCTTCAAGATAACTTGCCAAAATCTGTTTCCACTTTTTCAGTATGATCGTTTCTTTGA
GAAAAAATTGATGAGAAAAAGAATGACCACACCTATCGAGTTTTTAAACTGTGAACCGGCGAGCACACATCTT
CCCCATGGCAGATGACTATTAGACTCCCTCATCACCAAAAGCAAGTGTGAGTCTGGTGCAGTAATGACTACCT
AGGAATGAGTCGCCACCCACGGGTGTGTGGGGCAGTTATGGACACTTTGAAACAACATGGTGTGGGGCAGGTGG
TACTAGAAATATTTCTGGAAGTAGTAAATTCATGTGGACTTAGACGGGGAGCTGGCAGACCTCCATGGGAAAGA
TGCCGCACTCTTGTTTTCTCGTGCTTTGTGGCCAATGACTCAACCTCTTACCCTGGCTAAGATGATGCCAGG
CTGTGAGATTTACTCTGATTCTGGGAACCATGCCTCCATGATCCAAGGGATTGCAACAGCCGAGTGCCAAAGTA
CATCTTCCGCCACAATGATGTGAGCCACCTCAGAGAACTGCTGCAAGATCTGACCCCTCAGTCCCCAAGATTGT
GGCATTTGAAACTGTCCATTCAATGGATGGGGCGGTGTGCCCACTGGAAGAGCTGTGTGATGTGGCCCATGAGTT
TGGAGCAATCACCTTCGTGGATGAGGTCCACGCACTGGGGCTTTATGGGGCTCGAGGCGGAGGGATTGGGGATCG
GGATGGAGTCATGCCAAAATGGACATCATTTCTGGAACACTTGGCAAAGCCTTGGTTGTGTGGAGGGTACAT
CGCCAGCACGAGTTCTCTGATTGACACCGTACGGTCTATGCTGCTGGCTTCATCTTACCACCTCTCTGCCACC
CATGCTGCTGGCTGGAGCCCTGGAGTCTGTGCGGATCCTGAAGAGCGCTGAGGGACGGGTGCTTCGCCGCCAGCA
CCAGCGCAACGTCAAATCATGAGACAGATGCTAATGGATGCCGGCCTCCCTGTTGTCCACTGCCCCAGCCACAT
CATCCCTGTGCGGGTTGCAGATGCTGCTAAAAACACAGAAGTCTGTGATGAACATAATGAGCAGACATAACATCTA
CGTGCAAGCAATCAATTACCTACGGTGCCCCGGGGAGAAGAGCTCCTACGGATTGCCCCCACCCTCACCACAC
ACCCAGATGATGAACACTTCTTGAAGATCTGCTAGTCACATGGAAGCAAGTGGGGCTGGAAGTGAAGCCTCA
TTCCTCAGCTGAGTGCAACTTCTGCAGGAGGCCACTGCATTTTGAAGTATGAGTGAAAGAGAGAAGTCCATTTT
CTCAGGCTTGAGCAAGTTGGTATCTGCTCAGGCCCTGAGCATGACCTCAATTATTTCACTTAACCCAGGCCATTA
TCATATCCAGATGGTCTTCAGAGTTGTCTTTATATGTGAATTAAGTTATATTAAATTTAATCTATAGTAAAAAC
ATAGTCCTGGAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

1257/6881
FIGURE 1168

MESVVRRCPFLSRVPQAFLOKAGKSLFYAQNCPKMMEVGAKPAPRALSTAAPHYQQIKETPPASEKDKTAKAKV
QQTPDGSQQSPDGTQLPSGHPLPATSQGTASKCPFLAAQMNQRGSSVFCKASLELQEDVQEMNAVRKEVAETSAG
PSVVSVKTDGGDPSGLLKNFQDIMQKQRPERSHLLQDNLPKSVSTFYDRFFEKKIDEKKNDHTYRVFKTVNRR
AHIFPMADDYSDSLITKKQVSVWCSNDYLGMSRHPVCGAVMDTLKQHGAGAGGTRNISGTSKFHVDLERELADL
HGKDAALLFSSCFVANDSTLFTLAKMMPGCEIYSDSGNHASMIQGIRNSRVPKYIFRHNDVSHLRELLQRS DPSV
PKIVAFETVHSM DGAVCPLEELCDVAHEFGAITFVDEVHAVGLYGARGGGIGDRDGVM PKMDIISGTLGKAFGCV
GGYIASTSSLIDTVRSYAAGFIFTTSLPPMLLAGALESVRILKSAEGRVLRQHQRNVKLMRQMLMDAGLPVVHC
PSHIIPVRVADAANKTEVCDELMSRHNIYVQAINYPTVPRGEELLRIAPTPHHTPQMMNYFLENLLVTWKQVGLE
LKP HSSAECNFCRRPLHFEVMSEREKSYFSGLSKLVSQA

1258/6881
FIGURE 1169

ATGCCCTACCAATATCCATTGCTGACCCCGGAGCAGAAGGAGCTGTCTGACATGACTCATCGCATCGTAGCTCTG
GGCAAGGGCATCCCGGCTGCAGATGAGTCCACTGGGAGCACTGCCAAGTGGCTGCAGTCCATTGGCACCGAGAAT
ACCGAGGAGAACCGGTGCTTCTACCGCCAGCTGTGGCTGACAGCTGACAACCGCGTGAACCCCTGCATCAAGGGT
GTCATCCTCTTCCATGAGACGCTGTACCAAAAGGCGGATGATGGGCGTCCCTTCCCCCAAGTTATCAAATCCAAG
GGCAATGTTGTGAGCATCAAGTGTGTCAATGTCCTGGCCCACTATGCCAGCATCTGCCAGCAGAATGGCATTGTG
CTCTTCTACTGCCAGTATGTAACCGAGAAGGTGTGGCTGCTCTACAAGGCTCTGAGTGACCATGACATCTACCTG
GAAGGCACCTTGCTGAAGTCCAATATGGTCACCCAGGCCATGCCTGCATCCAGAAGTTTTCTCATGAGGAGATT
GCCATGGCAACTGTCAAGCACTACACTCTGGGGAATAAGCGGCCTAGAAGGATCACAAGTGGGCCAGAACAGG
GCCCACCCAGACTCATCACTGAGGCAGAGCAAGGAAGTGTCCATCAACCTCAATGCCATTAAACAAGTGCCCCCTC
CTGAAGCCCTGGGGCCTGACCTTCTCATATAGCTGA

1259/6881
FIGURE 1170

TTCCGGCGTTGTTGACCCTATTTCCCGTGCTGCACCGCAGCCCCCTTTCTCTTCCGGTTCTAGGCGCTTCGGGAGC
CGCGGCTTATGGTGCAGACATGGCCAAGTCCAAGAACCACACCACACACAACCAGTCCCGAAAATGGCACAGAAA
TGGTATCAAGAAACCCCGATCACAAAGATACGAATCTCTTAAGGGGGTGGACCCCAAGTTCCTGAGGAACATGCG
CTTTGCCAAGAAGCACAAACAAAAAGGGCCTAAAGAAGATGCAGGCCAACAAATGCCAAGGCCATGAGTGCACGTGC
CGAGGCTATCAAGGCCCTCGTAAAGCCCAAGGAGGTTAAGCCCAAGATCCCAAAGGGTGTGAGCCGCAAGCTCGA
TCGACTTGCCCTACATTGCCCACCCCAAGCTTGGGAAGCGTGCTCGTGCCCGTATTGCCAAGGGGCTCAGGCTGTG
CCGGCCAAAGGCCAAGGCCAAGGCCAAGGCCAAGGATCAAACCAAGGCCAGGCTGCAGCCCCAGCTTCAGTTCC
AGCTCAGGCTCCCAAACGTACCCAGGCCCCCTACAAAGGCTTCAGAGTAGATATCTCTGCCAACATGAGGACAGAA
GGACTGGTGGCAGCCCCCAGCCCCGCCCCCTGGGCTACCATCTGCATGGGGCTGGGGTCCTCCTGTGCTATTGTA
CAAATAAACCTGAGGCAGGAAA

1260/6881
FIGURE 1171

MAKSKNHTTHNQSRKWHRNGIKKPRSQRYESLKGVDPKFLRNMRFKKHNKKGLKKMQANNAKAMSARAEAIKAL
VKPKEVKPKIPKGVSRKLDRLAYIAHPKLGKRARARIAKGLRLCRPKAKAKAKAKDQTKAQAAAPASVPAQAPKR
TQAPTKASE

1261/6881
FIGURE 1172

GGGCGCTGAGAGGCGAGCGTGAGCCCAGCGACAGGAGAGTGAGCTCACCACGCGCAGCGCCATGACCAGCAAGGG
TCCCGAGGAGGAGCACCCATCGGTGACGCTCTTCGCCAGTACCTGCGTATCCGCACTGTCCAGCCCAAGCCTGA
CTATGGAGCTGCTGTGGCTTTCTTTGAGGAGACAGCCCGCCAGCTGGGCCTGGGCTGTGAGAAAGTAGAGGTGGC
ACCTGGCTATGTGGTGACCGTGTGACCTGGCCAGGCACCAACCCTACACTCTCCTCCATCTTGCTCAACTCCCA
CACGGATGTGGTGCCTGTCTTCAAGGAACATTGGAGTCACGACCCCTTTGAGGCCTTCAAGGATTCTGAGGGCTA
CATCTATGCCAGGGGTGCCAGGACATGAAGTGCCTCAGCATCCAGTACCTGGAAGCTGTGAGGAGGCTGAAGGT
GGAGGGCCACCGTTCCCCAGAACCATCCACATGACCTTTGTGCCTGATGAGGAGGTTGGGGGTACCAAGGCAT
GGAGCTGTTTCGTGCAGCGGCCTGAGTTCCACGCCCTGAGGGCAGGCTTTGCCCTGGATGAGGGCATAGCCAATCC
CACTGATGCCTTCACTGTCTTTTATAGTGAGCGGAGTCCCTGGTGGGTGCGGGTTACCAGCACTGGGAGGCCAGG
CCATGCCTCACGCTTCATGGAGGACACAGCAGCAGAGAAGCTGCACAAGGTTGTAAACTCCATCCTGGCATTCCG
GGAGAAGGAATGGCAGAGGCTGCAGTCAAACCCCACTGAAAGAGGGGTCCGTGACCTCCGTGAACCTGACTAA
GCTAGAGGGTGGCGTGGCTATAACGTGATACCTGCCACCATGAGCGCCAGCTTTGACTTCCGTGTGGCACCAGG
TGTGGACTTCAAGGCTTTTGAGGAGCAGCTGCAGAGCTGGTGCCAGGCAGCTGGCGAGGGGGTCACCCTAGAGTT
TGCTCAGAAGTGGATGCACCCCCAAGTGACACCTACTGATGACTCAAACCCCTTGGTGGGCAGCTTTTAGCCGGGT
CTGCAAGGATATGAACCTCACTCTGGAGCCTGAGATCATGCCTGCTGCCACTGACAACCGCTATATCCGCGCGGT
GGGGGTCCCAGCTCTAGGCTTCTCACCCATGAACCGCACACCTGTGCTGCTGCACGACCACGATGAACGGCTGCA
TGAGGCTGTGTTCCCTCCGTGGGGTGGACATATATACACGCCTGCTGCCTGCCCTTGCCAGTGTGCCTGCCCTGCC
CAGTGACAGCTTGAGCCCTGGAACTCCTAAACCTTTGCCCTGGGGCTTCCATCCCAACCAGTGCCAAGGACCTCC
TCTTCCCCCTTCCAAATAATAAAGTCTATGGACAGGGCTGTCTCTGAAGTACTAACACAAGGACA

1262/6881

FIGURE 1173

MTSKGP EEEHPSVTLFRQYLRI RTVQPKPDYGA AVAFFEETARQLGLGCQKVEVAPGYVVTVLTPGNTLSSI
LLNSHTDVVPVFKEHWSHDPFEAFKDSEGIYARGAQDMKCVSIQYLEAVRRLKVEGHRFPRTIHMTFVPDEEVG
GHQGMELFVQRPEFHALRAGFALDEGIANPTDAFTVFYSESPWWVRVTSTGRPGHASRFMEDTAAEKLHKVVNS
ILAFREKEWQRLQSNPHLKEGSVTSVNLTKLEGGVAYNVIPATMSASFDFRVAPDVDFKAFEEQLQSWCQAAGEG
VTLEFAQKWMHPQVTPTDSDNPWWAASRVCKDMNLTLEPEIMPAATDNRYIRAVGV PALGFSPMNRTFVLLHDH
DERLHEAVFLRGVDIYTRLLPALASVPALPSDS

1263/6881
FIGURE 1174

CGCCAGCACGCGCCTGCTTCCCGTCTGCGCGAGTCCACGCAGCTCCCCAGATCAAGAAGCTGAGGCCCCAGGTTA
CACACTAAAGTAAATGGCAGAGGCAGAAATAACACCTATGTCCTCCTGACCCCAAGGCATGTTCTTAAAGTTCTG
GAAACCTCCTGGAGGCTTCCCTTGCTGCTCCTCTGGGACTGCCACCCTGGGCAGGGTGTCTGTGGCCCCCTCATCA
TCGTGGTTTTGAACCACAGGCCCTTACCAGCACAGCAGCAGCAGGCATGGCAGCAAGCGTGGAGCAGCGCGAGG
GCACCATCCAGGTGCAGGGCCAGGCCCTTCTTCTCCGAGAGGCCCTGCCCGGCAGTGGGCAGGCTCGCTTCTCTG
TACTGCTGCTGCATGGTATTGCTTCTCCTCCGAGACCTGGCAGAACCTGGGTACACTGCACAGGCTGGCCCAGG
CTGGCTACCGGGCTGTGGCCATTGACCTGCCAGGTCTGGGGCACTCCAAGGAAGCAGCAGCCCCCTGCCCTATTG
GGGAGCTGGCCCCCTGGCAGCTTCCCTGGCGGCTGTGGTGGATGCCCTGGAGCTGGGCCCCCGGTTGTGATCAGTC
CATCACTGAGTGGCATGTACTCCCTGCCCTTCCCTACGGGCCCTGGCTCCCAGCTCCCGGGCTTTGTGCCAGTGG
CCCCCATCTGCACTGACAAAATCAATGCTGCCAACTATGCCAGTGTGAAGACTCCAGCTCTGATTGTATATGGAG
ACCAGGACCCCATGGGTGAGACCAGCTTTGAGCACCTGAAGCAGCTGCCCAACCACCGGGTGTGATCATGAAGG
GGGCGGGGCACCCCTGTTACCTGGACAAACCAGAGGAGTGGCATAACAGGGCTGCTGGACTTCTGACAGGGGCTCC
AGTGAAGCCCCAGCACTGCTGCAGGGGGTGGGCTGCCCTGCTCTGAGCTCTCTCTTGACGCTCTCTCTTCTCT
TCCCAGGCTCTGGCTCATGCACATGCAACAGGTGCGTCTGTCTATATGCTGGGTTCTTGTCTTTTGTGGTCTGT
TTGTCTTTTCTACCTCTTTCTCTTGCACTGATAGACTGAGGGGGTAAATCAAGAGAAAAAACTCTCAGGAATCA
AGGAACATAATCCTGTGGAGGGTAATCCATTACATGAGCTTCTCCIGTTCTTCCACTTTCTGCTGGCTTTTAC
TCTTCCCCTGCTCTGCCCAGCCTTTCCCTCCCACCCACTCCTCCTTCTGCAAATGCCCTGAAGGCCAGCCCTTA
CCCCAACACCCACTTCCCCACCTCCTTAGGCCCCAGATACATACATGCCCACATGCACGCTTACATGTTTAGAGC
CATCCTTGTTTCCAAATATGACCCTTCGCTTGAGGGCACTGCATAGGTACATCTAACTCTGGACTGGCATGCAC
CCTAACCATGCTAACCTCACTGGCTGGGAAGGTGGGGACCCCATGGGCCAGCCCTTGCAAGGAGGCCCTTTTGCAA
GGCTTAGGGTGTGGCCAGCCCTGAAAGCTACTTGGACACAGGTTTCAGCTGGCCCCAGCCAGAGTGACCCCCA
GAAAGGGAGGGCCACCGCTTTGCCCCCTGCTTTTACCCTTCTTCTGGGTGCTCTACACCTCAGGTTACCAGGCC
TGAGGCATCTCAGCCAAGCTTGTTTCTGCTCTGAGGCTTGTTGGGGTGGGAGCCAGAGTGGAGGTCGGTGAAATA
AAGTGATGCAATTAGAAAAAAAAAAAAAAAAAAAAA

1264/6881

FIGURE 1175

MAASVEQREGTIQVQGQALFFREALPGSGQARFSVLLHGHGIRFSSETWQNLGTLHRLAQAGYRAVAIDLPGLGHS
KEAAAPAPIGELAPGSFLAAVDALELGPPVVISPSLSGMYSLPFLTAPGSQLPGFVPVAPICTDKINAANYASV
KTPALIVYGDQDPMGQTSFEHLKQLPNHRVLIMKGAGHPCYLDKPEEWHGTGLLDFLQGLQ

1265/6881
FIGURE 1176

ATAACCCCTCATTGTTTCGCAGCTGATGTCACTCGCAGTTGTGAGCGGCCGCCTCTCCCGGGGACAATGTGGGACT
GAGCGGGCCAGCCGCCGTGCCGCCGCCGCCGCCGCCGAGGACAGCCCCAGCGAGAGCCGGCCAGGTTGCAGCGC
GGACACACTCGCAGGTGCGTGTGGCCCCAGCCTCGCCTGACAGAAATGAGCGGCTCGGACGGGGGACTGGAGGAGG
AGCCAGAGCTCAGCATCACCTCAGCTGCGGATGCTGATGCACGGGAAGGAAGTGGGCAGCATCATCGGGAAGA
AGGGCGAGACTGTAAAGCGAATCCGGGAGCAGAGCAGTGCCCGGATCACCATCTCCGAGGGCTCCTGCCCTGAAC
GCATCACCACCATCACCAGGTCTACAGCAGCTGTCTCCATGCAGTCTCCATGATTGCTTTCAAACGGATGAGG
ACCTTTGTGCTGCTCCTGCAAATGGTGGAATGTCTCCAGGCCTCCAGTGACCCTGCGCCTTGTATCCCTGCCA
GTCAGTGTGGTCACTGATTGGGAAGGCTGGCACCAAGATCAAGGAGATCCGAGAGACTACGGGTGCCAGGTAC
AGGTGGCAGGGGACCTGCTCCCCAACTCCACAGAGCGAGCTGTTACGGTATCTGGGGTGCTGATGCCATCATCC
TGTGTGTGCCAGATCTGCGTGTATCTCTGGAGTCCCCACCCAAAGGAGCCACTATCCCCTACCATCCGAGCC
TCTCCCTAGGTACTGTTCTTCTCTGCCAACCAGGGCTTCTCTGTCCAGGGTCAGTATGGGGCTGTGACCCAG
CTGAGGTACCAAAGCTCCAGCAGCTCTCAAGCCATGCGGTCCCCCTTGCCACACCCAGCGTGGTGCCAGGACTGG
ATCCCGGCACACAGACCAGCTCACAGGAGTTCTTGTTCCCAACGATTTGATTGGCTGTGTGATCGGGCGCCAGG
GCAGCAAGATCAGCGAGATCCGGCAGATGTGAGGGGCACATATCAAGATCGGGAACCAAGCAGAGGGCGCTGGGG
AGCGGCATGTCACCATCACTGGCTCTCCGGTCTCCATCGCCCTGGCCCAGTACCTCATCACTGCCTGTCTAGAGA
CGGCCAAGTCTACCTCTGGGGGGACGCCAGCTCGGCCCGCCGAGACCTGCCTGCCCCCTTCTCGCCACCCCTGA
CGGCCCTGCCACAGCTCCCCCTGGCTGCTGGGCACACCCTATGCCATCTCCCTCTCCAACCTCATCGGCCCTCA
AGCCCATGCCCTTCTTGGCTTTTACCACCTGCTTCCCCAGGGCGCCGCCGGGCTTGGCGGCCTACACTGCCAAGA
TGGCAGCAGCTAATGGGAGCAAGAAGGCTGAGCGGCAGAAATTCTCCCCCTACTGAGGGCCAGCTGAGGTACAGGC
AGGGGCAGGCAGGACCACCAGCAGGGGGCTGCCTCTGCACCCTACCCGCCCAAGGAGACTCCACCCTGGGGTCCC
AAACGCCGCTAACGCCAGACGCATGGATGCACCCCTACCCTGCCTCCATCTATGGGAGTTCTTCTCTCAGAG
TGGGGGCAGTTTCTGCCCCAGGGTCTGAGCTGCGGCAGCCCCAGGGCAGGGGGCCCTACCTCCTCAGCTCTGTG
CTTGATACAGGGAGCAGCCAGGAGACTCCCTAGTGCCCCACCATGGCGGGTGTCACTCACGCACTCCCCATCC
CTTAGGGCTTCTGCGCTACTGCATCCTTGTGGGAGTCAGGGAGGAGGGCCCGTTGGGTAGCTGGGGGCCAGGCTT
CTCTCCCCACCACCTGCAGATTTCTTGCTGCTTCCACTGATACCCTTTTACTGGAATGAAGTGGCTGGGCTTGT
CAGGGGGCACCCAAAGAGGGGGCACTGCCAGGTAGCTGGGGAGTGGCATGGGGCAGGGGGCCAGTTCTCAGCA
GCAGACACTCTGTACAGTTTTTTCAATCCCTGTTTTTGAATAAATATTCTCAGCGACCAAAAAAAAAAAAAAAAA
AAAAAAA

1266/6881
FIGURE 1177

MSGSDGGLLEEEPELSITLTLRMLMHGKEVGSIIIGKKGETVKRIREQSSARITISEGSCPERITTTITGSTAAVFHA
VSMIAFKLDEDLCAAPANGGNVSRPPVTLRLVIPASQCGSLIGKAGTKIKEIRETTGAQVQVAGDLLPNSTERAV
TVSGVPDAIILCVRQICAVILESPPKGATIPYHPSLSLGTVLLSANQGFVSQGYGAVTPAEVTKLQQLSSHVP
FATPSVVPGLDPGTQTSSQEFLVPNDLIGCVIGRQGSKISEIROMSGAHIKIGNQAEGAGERHVTITGSPVSIAL
AQYLITACLETAKSTSGGTPSSAPADLPAPFSPPLTALPTAPPGLLGTPYAISLSNFIGLKPMFFLALPPASPGP
PPGLAAYTAKMAAANGSKKAERQKFSPY

1267/6881
FIGURE 1178

CCTCTGGAGTCCCTGTGGCAGAACTCAAATGGAAGGAGGAGCAGCTGCACCCAGGGGAGCAGGGTGTACCTCCG
TTGGATAGAGCCGGCCAGGTTGCAGCGCGGACACACTCGCAGGTGCGTGTGGCCCCAGCCTCGCCTGACAGAATG

AGCGGCTCGGACGGGGGACTGGAGGAGGAGCCAGAGCTCAGCATCACCTCACGCTGCGGATGCTGATGCACGGG
AAGGAAGTGGGCAGCATCATCGGGAAGAAGGGCGAGACTGTAAAGCGAATCCGGGAGCAGAGCAGTGCCCGGATC
ACCATCTCCGAGGGCTCCTGCCCTGAACGCATCACCACCATCACCGGGTCTACAGCAGCTGTCTTCCATGCAGTC
TCCATGATTGCTTTCAAACCTGGATGAGGACCTTTGTGCTGCTCCTGCAAATGGTGGAAATGTCTCCAGGCCTCCA
GTGACCCTGCGCCTTGTTCATCCCTGCCAGTCAGTGTGGTCACTGATTGGGAAGGCTGGCACCAAGATCAAGGAG
ATCCGAGAGACTACGGGTGCCAGGTACAGGTGGCAGGGGACCTGCTCCCCAACTCCACAGAGCGAGCTGTTACG
GTATCTGGGGTGCCTGATGCCATCATCCTGTGTGTGCGCCAGATCTGCGCTGTTATCCTGGAGTCCCCACCCAAA
GGAGCCACTATCCCTACCATCCGAGCCTCTCCCTAGGTACTGTTCTTCTCTCTGCCAACCAGGGCTTCTCTGTC
CAGGGTCAGTATGGGGCTGTGACCCAGCTGAGGTACCAAGCTCCAGCAGCTCTCAAGCCATGCGGTCCCCCTT
GCCACACCCAGCGTGGTGCCAGGACTGGATCCCGGCACACAGACCAGCTCACAGGAGTTCTTGTTCCCAACGAT
TTGATTGGCTGTGTGATCGGGCGCCAGGGCAGCAAGATCAGCGAGATCCGGCAGATGTGAGGGGCACATATCAAG
ATCGGGAACCAAGCAGAGGGGCGCTGGGGAGCGGCATGTCACCATCACTGGCTCTCCGGTCTCCATCGCCCTGGCC
CAGTACCTCATCACTGCCTGTCTAGAGACGGCCAAGTCTACCTCTGGGGGGACGCCAGCTCGGCCCCCGCAGAC
CTGCCTGCCCCCTTCTCGCCACCCCTGACGGCCCTGCCACAGCTCCCCCTGGCCTGCTGGGCACACCTATGCC
ATCTCCCTCTCCAACTTCATCGGCCTCAAGCCCATGCCCTTCTTGGCTTTACCACCTGCTTCCCCAGGGCCGCCG
CCGGGCTTGGCGGCCTACACTGCCAAGATGGCAGCAGCTAATGGGAGCAAGAAGGCTGAGCGGCAGAAATTCTCC
CCCTACTGAGGCCAGCTGAGGTACAGGCAGGGGCAGGCAGGACCACAGCAGGGGGCTGCCTCTGCACCCTACCC
GCCAAGGAGACTCCACCCTGGGGTCCCAAACGCCGCTAACGCCACAGCGCATGGATGCACCCCTACCCTGCCT
CCATCTATGGGAGTTCTTTCTCTCAGAGTGGGGGCAGTTCTGGCCCAGGGGTCTGAGCTGCGGCAGCCCCAGGG
CAGGGGGCCCTACCTCCTCAGCTCTGTGCTTGGATACAGGGAGCAGCCAGGAGACTCCCTAGTGCCCCACCATG
GCGGGTGTCACTCACGCACTCCCCATCCCTTAGGGCTTCCTGGCCTACTGCATCCTTGTGGGAGTCAGGGAGGAG
GGCCCGTTGGGTAGCTGGGGCCAGGCTTCTCTCCCCACCACCTGCAGATTTCTTGCTGCTTCCACTGATACCCTT
TTGACTGGAATGAACTGGCTGGGCTTGTGAGGGGGCACCCCAAAGAGGGGGCACTGCCAGGTAGCTGGGGGAGTG
GCATGGGGCAGGGGCCAGTTCTCAGCAGCAGACACTCTGTACAGTTTTTTCAATCCCTGTTTTTGAATAAATAT
TCTCAGCGACCA

1268/6881
FIGURE 1179

MSGSDGGLEEEPELSITLTLRMLMHGKEVGSIIIGKKGETVKRIREQSSARITISEGSCPERITTTITGSTAAVFHA
VSMIAFKLDEDLCAAPANGGNVSRPPVTLRLVIPASQCGSLIGKAGTKIKEIRETTGAQVQVAGDLLPNSTERAV
TVSGVPDAIILCVRQICAVILESPPKGATIPYHPSLSLGTVLLSANQGFVSQGYGAVTPAEVTKLQQLSSHVP
FATPSVVPGLDPGTQTSSQEFLVPNDLIGCVIGRQGSKISEIRQMSGAHIKIGNQAEGAGERHVTITGSPVSIAL
AQYLITACLETAKSTSGGTPSSAPADLPAPFSPPLTALPTAPPGLLGTPYAISLSNFIGLKMPFALPPASPGP
PPGLAAYTAKMAAANGSKKAERQKFSPY

1269/6881
FIGURE 1180

ATTCTTTTGTCTCAGGGTAAGGGAAAGGCTAGGTACCTACCATGTATGTGCTTATTGTTTAAATTCTCATC
ACTCTTTGGAGATGGGAATTTGTATCCCTTCTACAGATGGAGAAGCTGAGGCTCAGAGGGTTGAATGGGCTCCC
CAGGCTTACACAGCTCGTGAGACACACATAAGCACCTGGTCAGAGTGATGTGTGGCGCTCAAGGTCCATGCAGT
CTCTTTCTCTGGGAGTTTGACTAGCCAGCTCTGGGGTCCCCATGTAAGGGCAGGGGCAGGGTGGACTGGGCTC
CTCTCGAACCCCTCTTTGGCTGCCCCAGCGAGAGCCGGCCAGGTTGCAGCGCGGACACACTCGCAGGTGCTGTG
GCCCCAGCCTCGCCTGACAGAATGAGCGCTCGGACGGGGGACTGGAGGAGGAGCCAGAGCTCAACATCACCTC
ACGTGCGGATGCTGATGCACGGAAGGAAGTGGGCAGCATCATCGGGAAGAAGGGCGAGACTGTAAAGCGAATC
CGGAGCAGGTGAGGATGGAGTTTGGGGGAGGAGCCAGGGCACCTGATGTGGAGGGGAGATCCCTGCCCCACTT
TCTCTCTGAACCACTCCTTCTGGGCTGACCAGTGAGTCCCCAGAGGGTGGCAGTTTGTAGCCTTGCCCTCAGGCC
TGGTGAGTGGGGCAGGCAGACAAGTTCCGGCAAGGGAGCAGGGAAGATGCCCCGCTGCCCGCGCTCATTCTATA
TCTGCAGAGCAGTGCCCCGATCACCATCTCCGAGGGCTCCTGCCCTGAACGCATCAACACCATCACGGGGTCTAC
AGCAGCTGTCTTCCATGCAGTCTCCATGATTGCTTTCAAAGTGGATGAGGACCTTTGTGCTGCTCCTGCAATGG
TGAAAATGTCTCCAGGCCTCCAGTGACCTGCGCCTTGTCATCCCTGCCAGTCAGTGTGGCTCACTGATTGGGAA
GGCTGGCACCAAGATCAAGGAGATCCGAGAGGTGAGGGGCGAGATATACCAACCCACAGGGAATCCGGGGCAAGGG
AGCAGTTGTAAGAGGGGTGTTGGGCTTATGGCGTCTCTCCACCTAGAGAGCTCTGAGCCTGGGCAGCCCTTTTC
TGGGTTATGGGAGCAGCCAGAAGTGGCCCTGTTCTCTGTTTGCACTACGGGTGCCAGGTACAGGTGGCAGG
GGACCTGCTCCCCAACTCCACAGAGCGAGCTGTACGGTATCTGGGGTGCTGATGCCATCATCTGTGTGTGCG
CCAGATCTGCGCTGTTATCCTGGAGTCCCCACCCAAAGGAGCCACTATCCCTACCATCCGAGCCTCTCCCTAGG
TACTGTTCTTCTCTCTGCCAACAGGGCTTCTCTGTCCAGGGTCAGTATGGGGCTGTGACCCAGCTGAGGTAC
CAAGCTCCAGCAGCTCTCAAGCCATGCGGTCCCTTTGCCACACCCAGCGTGGTGCCAGGACTGGATCCCGGCAC
ACAGACCAGCTCACAGGAGTTCTTGGTTCCCAACGATTTGATTGGCTGTGTGATCGGGCGCCAGGGCAGCAAGAT
CAGCGAGATCCGGCAGATGTACGGGGCACATATCAAGATCGGGAACCAAGCAGAGGGCGCTGGGGAGCGGCATGT
CACCATCACTGGCTCTCCGGTCTCCATCGCCCTGGCCAGTACCTCATCACTGCCTGTCTAGAGACGGCCAAGTC
TACCTCTGGGGGGACGCCCAGCTCGGCCCCCGCAGACCTGCCTGCCCCCTTCTCGCCACCCCTGACGGCCCTGCC
CACAGCTCCCCCTGGCCTGCTGGGCACACCCTATGCCATCTCCCTCTCCAACCTCATCGGCCCTAAGCCCATGCC
CTTCTTGGCTTTACCACCTGCTTCCCCAGGGCCGCGCCGGGCTTGGCGGCTTACCTGCCAAGATGGCAGCAGC
TAATGGGAGCAAGAAGGCTGAGCGGCAGAAATCTCCCCCTACTGAGGCCAGCTGAGGTACAGGCAGGGGCAGGC
AGGACCACCAGCAGGGGGCTGCCTCTGCACCCTACCCGCCCAAGGAGACTCCACCCTGGGGTCCCAAACGCCGCT
AACGCCCAGACGCATGGATGCACCCCTACCCTGCCTCCATCTATGGGAGTTCTTCTCTCAGAGTGGGGGCAGT
TTCTGGCCAGGGGCTGAGCTGCGGCAGCCCCAGGGCAGGGGGCCCTACCTCCTCAGCTCTGTGCTTGGATACA
GGGAGCAGCCAGGAGACTCCCTAGTGCCCCACCATGGCGGGTGTCACTCACGCACTCCCCATCCCTTAGGGCTT
CCTGGCCTACTGCATCCTTGTGGGAGTCAGGGAGGAGGGCCGTTGGGTAGCTGGGGCCAGGCTTCTCTCCCCAC
CACCTGCAGATTTCTTGCTGCTTCCACTGATACCTTTTGTACTGGAATGAACCTGGCTGGGCTTGTACGGGGCAC
CCCAAAGAGGGGGCACTGCCAGGTAGCTGGGGGAGTGGCATGGGGCAGGGGCCAGTTCTCAGCAGCAGACACTC
TGTACAGTTTTTTCAATCCCTGTTTTTGAATAAATATTCTCAGCGACCAAAAAAAAAAAAAAAAAAAAAA

1270/6881

FIGURE 1181

MPRCPALILYLQSSARITISEGSCPERITTTITGSTAAVFHAVSMIAFKLDEDLCAAPANGGNVSRPPVTLRLVIP
ASQCGSLIGKAGTKIKEIREVRGEIYHPQGIRGKGAVVRGVLGLWRPPHLESSEPGQPFSGLWEQPEVAPVLCLQ
TTGAQVQVAGDLLPNSTERAVTVSGVPDAIILCVRQICAVILESPPKGATIPYHPSLSLGTVLLSANQGFVQGG
YGAVTPAEVTKLQQLSSHAVPFATPSVVPGLDPGTQTSSQEFLVPNDLIGCVIGRQGSKISEIRQMSGAHIKIGN
QAEGAGERHVTITGSPVSIALAQYLITACLETAKSTSGGTPSSAPADLPAPFSPPLTALPTAPPGLLGTPYAI SL
SNFIGLKPM PFLALPPASPGPPPGLAAYTAKMAAANGSKKAERQKFSPY

1271/6881
FIGURE 1182

GAATTCCGCCGCTGCTACACGCCTGGTGGGCAGC**CATGT**CGGCAACAGCGGCTGCTCGTAAGCGGGGAAAGCCGGC
CTCTGGGGCCGGGGCTGGCGCGGGGGCCGGCAAGCGGCGCGAAAGGCCGACTCTGCGGGGGACAGGGGCAAATC
CAAGGGTGGCGGCAAGATGAATGAGGAGATCTCCAGCGACTCTGAGAGCGAGAGCCTAGCTCCAAGGAAGCCTGA
GGAGGAGGAGGAGGAGGAGCTGGAGGAAACTGCACAGGAAAAGAAGCTGCGCTTGGCCAAGCTCTACCTAGAGCA
GCTCCGTCAGCAAGAGGAGGAGAAGGCTGAGGCCCGTGCAATTTGAGGAGGACCAGGTGGCGGGGCGCCTGAAGGA
GGATGTGCTTGAGCAGAGGGGCAGGCTGCAGAAAGTTGGTGGCAAAAGAGATCCAGGCCCCAGCCTCAGCTGACAT
TCGCGTTTTACGGGGGCACCACTCTCTATCACATGTTTGGTCGTCACCCCCGATGACTCAGCCATCTTCTCTGC
TGCCAAAGACTGCAGCATCATTAAAGTGGAGCGTGGAGAGTGGACGGAAGCTGCATGTGATTCCCTCGAGCCAAGAA
GGGTGCCGAGGGAAGCCCCCTGGCCACAGCAGCCACGTCCTCTGCATGGCCATCTCCTCCGACGGCAAGTACCT
TGCCTCTGGTGACCGCAGCAAGCTCATTCTCATTGGGAGGCCAGAGCTGCCAGCACTTGTACACCTTCACAGG
ACACCGGGATGCAGTGTGGGTCTGGCATTCCGCAGAGGCACCCACAGCTCTACAGCACATCCCACGATCGCTC
CGTGAAGGTGTGGAATGTGGCAGAGAACTCCTACGTGGAGACGCTCTTCGGACACCAGGACGCTGTGGCTGCACT
GGATGCCTTGAGCCGGGAGTGCTGTGTGACGGCTGGGGGCGGGGATGGGACTGTACGTGTGTGGAAGATCCCCGA
GGAGTCCCAGCTTGTCTTCTATGGCCACCAGGGCTCCATCGACTGCATCCACCTAATCAATGAGGAGCACATGGT
GTCCGGCGCGGACGATGGCTCTGTGGCCTTGTGGGGTCTCTCCAAGAAGCGACCACTTGCCCTGCAGCGTGAAGC
TCACGGGCTGCGGGGAGAGCCAGGCCTGGAGCAGCCCTTCTGGATATCGTCGGTGGCAGCCCTCCTCAACACAGA
CCTTGTGGCCACAGGCTCCACAGCTCCTGTGTGCGGCTTTGGCAGTGTGGGGAAGGCTTCCGGCAGCTTGACCT
TCTCTGTGACATCCCCCTGGTGGGTTTTATCAACAGCCTCAAGTTCTCCAGCTCTGGGGACTTCTGGTGGCTGG
GGTAGGGCAGGAGCACAGGCTTGCCCGATGGTGGAGAATCAAAGAGGCTCGGAATTCTGTCTGCATCATCCCACT
CCGCAGGGTCCCTGTACCCCCAGCTGCTGGTTCC**TGAC**ACTCTTATCCTCCTTATTTAAGTCCTTCCCAGGCTAT
GCCCCACCCTCTTTGAAGCTT

1272/6881
FIGURE 1183

MSATAAARKRGKPPASGAGAGAGAGKRRRKADSAGDRGKSKGGGKMNEEISSDSESESLAPRKPEEEEEEELEETA
QEKKLRLAKLYLEQLRQQEEEEKAEARAFEDQVAGRLKEDVLEQGRQLQKLVAKEIQAPASADIRVLRGHQLSIT
CLVVTPDDSAIFSAAKDCSIIKWSVESGRKLHVIPRAKKGAEGKPPGHSSHVLCMAISSDGKYLASGDRSKLILI
WEAQSCQHLYTFTGHRDAVSGLAFFRGTHQLYSTSHDRSVKVVNVAENSYVETLFGHQDAVAALDALSRECCVTA
GGRDGTVRVWVKIPEESQLVFYGHQGSIDCIHLINEEHVMVSGADDGSVALWGLSKKRPLALQREAHGLRGEPLGLEQ
PFWISSVAALLNTDLVATGSHSSCVRLWQCCEGFRQLDLLCDIPLVGFINSLKFSSSGDFLVAGVGQEHRLGRWW
RIKEARNSVCIIPLRRVPVPPAAGS

1273/6881
FIGURE 1184A

GCAGCTTAGGCGCCACCAAGGCAAGAACCTAGCCTCCGAGGACCCCAAAAAGAAGAGAGCTCAGAAGCCCTCCCA
CATGAGAAGAAACATACGAAAGCTACTCCGGGAGGATCAATTGGAGCCTGTTACCAAAGCAGCACAGCAAGAAGA
GTTGGAAGAAGGAAGCGCTGGAGCAGCAGAGGAAAGATTATGCAGCCCCTATTCTACTGTTCCGCTGGAGTT
CCTCCCTGAGGAAATTGCTTTAAGGGCAAGTGACGGTCCCCAACTGCCTCCTCGGGTCTTGGCCCAGGAAGTCAT
TTGTTTGGACAGTAGCAGTGGCAGTGAGGATGAAAAAGCAGTCGAGATGAGGTGATTGAAGTGAAGTCTGGAGA
GGAGGACACTCTGCACATTGTGGACAGCAGTGAATCTGTCACTGAAGATGATGAGGAAGAAGAGAAGGGTGGCAC
CCATGTCAATGATGTCTTAACCAGCGTGACGCCCTTGGGCGGGTCTTGTCAACCTAAACCACCTCCAGAGGA
GGAAATGTCTTCTTGGCCACAGTTGGCACGGGCTGTGAAACCTCATCAGATTGGCGGGATCCGGTTCCTTTA
CGATAACCTAGTGGAGTCTCTGGAGAGGTTTAAGACCAGCAGTGGCTTTGGCTGTATTCTGGCCACAGCATGGG
TCTGGGGAAAACCTTTGCAAGTGATCTCTTTTCATCGACGTCTCTTCCGCCACACGCCAGCCAAAACAGTCTTGC
CATTGTGCCGTTAATACTCTTCAGAATTGGCTGGCAGAGTTCAACATGTGGCTTCCACCTCCTGAAGCCCTCCC
GGCTGACAACAAGCCTGAAGAAGTCCAGCCTCGGTTCTTTAAAGTTACATCTTGAATGATGAGCACAGACGAT
GGCATCTCGTGCTAAAGTGATGGCTGATTGGGTGTCAGAGGGTGGCGTGCTGCTGATGGGGTACGAGATGTACAG
ACTCCTCACTCTGAAGAAATCATTGGCCACAGGTAGACCGAAGAAAACCAAGAAGCGTTCTCACCCAGTCATCAT
TGATCTAGATGAGGAAGATCGGCAGCAGGAGTTTCGGAGAGAGTTTGAGAAGGCTTTATGCCGCCCTGGCCCTGA
TGATAGTAATCTGTGATGAGGGACACCGCATCAAAACTGCCAGGCCAGCACCTCACAGGCTCTGAAGAATATCCG
CTCTCGCCGCGGGTGGTGCTGACTGGGTACCCTCTGCAAAACACCTCATTGAGTACTGGTGCATGGTGGACTT
TGTGCGCCCGAGACTTCTTGGCACCCGGCAGGAGTTTCAGCAACATGTTTGAACGCCCTATCCTGAATGGGCAATG
TATTGACAGCACACCTCAGGACGTCCGCCTCATGCGGTACCGGAGCCATGTCCTGCACAGTCTTCTGGAGGGCTT
TGTGCAGAGGAGAGGCCACACTGTGCTGAAGATTCACTCCTGCCAAGGAAGAAAATGTGATCCTTGTGCGGCT
CTCCAAGATCCAGCGAGATTTGTATACACAGTTCATGGATCGCTTCCGGGACTGTGGTAGCAGCGGTGGCTGGG
GCTGAACCCCTTAAGGCATTCTGTGTGTGTGCAAGATCTGGAATCACCTGATGTGCTGTATGAAGCCCTTCA
GAAGGAGAGCTTGGCCAATGAGCAGGACCTAGACGTGGAAGAACTTGGCTCTGCAGGGACCAAGTGGCCGTGTCC
ACCACAGGGAACAAAAGGCAAGGAGAGGATAGCACCTTGGCTTCTCGATGGGAGAGGCAACCAATAGCAAGTT
CCTACAGGGCGTTGGCTTCAACCTTTCCAGGAGCGAGGCAACAACATTGTACATATGAATGGGCCAAGGACCT
TCTGACTAATTACCAGACTGGAGTCTTAGAAAACCTCCTCCAAGATGGTACTGCTTTTCCACCTGATTGAGGAAAG
TGTGAAGCTTGGGGACAAGATCCTTGTGTTTAGCCAGAGTCTTTCCACCTTGGCTCTCATCGAGGAATTCCTTGG
AAAACGAGAAGTACCCTGTCCACCTGGTACCGAGGGGCAAGGAGCACAGAAGTGGGTTGAAACATCAGCTACTT
CCGGCTAGATGTTAGCACCCCTGCCTTTGAGAGGGAGCGGCTTATTAATCAGTTCAATGATCCAGCAACCTCAC
CACCTGGCIGTTCTTCTCTCTACAAGGGCCGGATGCTTGGGTGTGAATCTGATTGGTGGCAACCGAGTGGTGGT
GTTTGATGCTTCTTGAACCCCTTGCCATGATGCCAGGCAGTATGTCGGGTATACCGTTATGGCCAGAAAAAGCC
CTGTTACATCTATCGCCTTGTGGCTGATTACACTCTAGAAAAGAAGATCTATGACCGTCAGATTCCAAGCAGGG
CATGTGAGATCGGGTGGTGGATGATCTAAATCCAATGCTGAACCTCACACGGAAAGAGGTGGAACCTACTGCA
CTTTGTTGAGAAGGAGCCAGCTCCCCAAGTTTCTTGAACGTAAAGGGGATCAAGGAGTCAGTCTGCAACTGGC
CTGTCTGAAGTACCCTCACCTCATCACAAGGAGCCTTTCGAGCATGAGTCATTGCTCTTGAACCGAAAGGATCA
CAAGCTAACCAAGGCTGAGAAAAAGCAGCAAGAAAAAGCTATGAGGAAGACAAACGCACATCAGTCCCCTATAC
CCGCCCATCGTATGCGCAGTATTACCTGCCAGCGATCAGAGCCTGACCAGCATCCCCGCCTTCAGCCAGAGAAA
CTGGCAGCCAACCTTGAAGGGTGATGAAAAGCCTGTGGCCAGTGTTCGTCTGTGCAGTCCACCCCATCCCCAT
GATGCCCCGGCATGTCCCATTTGGGAGGAAGTGTAAGCTCTGCCTCCAGCACAAATCCATCCATGAACCTTCCCAT
CAACTACTTGCAGCGTGACAGGATCCTTGTGCAAGGTGGTCACCACGACAGATATTGTTATTCTCGGACTCAA
CAGCTCCACAGATGTACAGGCAAGAATTAATGCTGGTGAGAGCATCCACATCATCCGTGGGACAAAAGGGACGTA
CATCCGTACCAAGTGTGACGGATCTTGTGCTGTCGGGCAACTGGCAAACCAAAGGTTCTGAAGATGGTGGAT
GGCTGCCTCAGGTTCCAGGGACCTTCTTGCAGTCCACAAGCAACGGCAGACACAGTGCCTCATACCCAAAGC
CCCCGACCCTGAGGGGCTGGCCAGGCCGTCTCTCTGACAGCCAGAGATCATCAGTGAGCTTCAGCAGTATGC
AGATGTGGCTGCTGCCCGGAATCCCGTCAGAGCTCCCCAAGCACCAATGCCGCCCTGCCTGGCCCCCGGCCCA
ACTTATGACAGCAGTGTGTTCCCGGGACAGCTCTCGGAAGTGAAGCTCGACTAGGGGGTCAATTGCCATCAATAG
TTCCCTCTTGGTGAAGTGGCCAGCCCTGTGGTGACAGGCACCCAGTGTGGACTTAAGGGGCCACAAGCGAAAGTT
GGCCACACCACCTGCTGCCAGGAGTCATCCCGCGGCGGTCCAGGAAGGGTCATCTGCCAGCCCCCGTGCAGCC

1274/6881

FIGURE 1184B

GTATGAACACGGGTATCCAGTCTCTGGCGGGTTTGCCATGCCACCCGTCTCCTTAAACCATAACCTCACCACCCC
CTTCACCTCCCAGGCTGGGGAGAACTCCCTGTTTATGGGCAGTACCCCTCCTACTACCAGCTGTCCAATTGCT
GGCAGATGCCCGCCTGGTGTTTCCAGTGACTACTGACCCCTCTGGTGCCAGCAGGCCCCGTCAGTTCTCTTCCAC
GGCTACCTCAGTCACTGCCAGCAACCCCTCCTTCATGCTCAACCCTTCTGTGCCAGGGATACTACCCAGCTATTC
ACTCCCATTCTCACAGCCACTCCTGTCCGAGCCGAGGATGTTTGCGCCTTTTCCTTCCCCTGTCTTGCCAGCAA
CCTTTCGCGGGGCATGTCTATCTATCCAGGCTACATGTCCCACATGCAGGCTACCCAGCTGGTGGCCTCCTACG
GTCCCAGGTGCCITCCATTTGACTCTCATGAGGTTGCCGAGGTTGGGTTTCAGCTCCAATGATGATGAGGATAAAGA
CGATGATGTGATAGAGGTCACTGGGAAATAGCTAGGGAGCCCTCCCCACCTCACTTGGGGCCCCCAGCAGGTTG
CCCACCAAGCTGAAAGGCAGTGATTIAGACCTTTTGAGAATAGGACACTTGGCAGGAGGGAAAAGGAAGAGGACA
AAGGAGGGTGTTGGCCAAAGTGGCAGAGCTCTGTTGCTGTTTAACAAAAGAGGC

1275/6881
FIGURE 1185

MRRNIRKLLREDQLEPVTKAAQQEELERRKRLEQQRKDYAAPITVPLEFLPEEIALRASDGPQLPPRVLAQEV
CLDSSSGSEDEKSSRDEVIELSSGEEDTLHIVDSSESVSSEDEEEEEKGGTHVNDVLNQRDALGRVLVNLNHPPEE
ENVFLAPQLARAVKPHQIGGIRFLYDNLVESLERFKTSSGFGCILAHSMGLGKTLQVISFIDVLFRRHTPAKTVLA
IVPVNTLQNLWLAEFNMWLPPEALPADNKPEEVQPRFFKVHILNDEHKTMASRAKVMADWVSEGGVLLMGYEMYR
LLTLKKSFATGRPKTKKRSHPVIIIDLDEEDRQQEFRRFEKALCRPGPDVVICDEGHRIKNCQASTSQALKNIR
SRRRVVLTGYPLQNNLIEYWCMDVFRPDLGTRQEFNSMFERPIIINGQCIDSTPQDVRLMRYRSHVLHSLLEGF
VQRRGHTVLKIHLPakeENVILVRLSKIQRDLTYQFMDRFRDCGSSGWLGLNPLKAFVCCKIWNHPDVLYEALQ
KESLANEQDLQDVEELGSAGTSARCPPQGTGKGEDSTLASSMGEATNSKFLQGVGFNPFQERGNINIVYEWAKDL
LTNYQTGVLENSPKMVLLFHLIEESVKLGDKILVFSQSLSTLALIEEFLGKREVPCCPGTEGQGAQKWVRNISYF
RLDGSTPAFERERLINQFNDPSNLTWFLLLSTRAGCLGVNLIGANRVVFDASWNPCHDAQAVCRVYRYGQKKP
CYIYRLVADYTLKKIYDRQISKQMSDRVVDLNPMLNFTRKEVENLLHFVEKEPAPQVSLNVKGIKESVLQLA
CLKYPHLITKEFFEHESELLNRKDHKLTKAEKKAACKSYEEDKRTSVPYTRPSYAQYYPASDQSLTSIPAFSQRN
WQPTLKGDEKPVASVRPVQSTPIPMFRHVPLGGSVSSASSTNPSMNFPINYLQAGVLVQKVTTTDDIVIPGLN
SSTDVQARINAGESIHIIRGKTGYIRTS DGRIFAVRATGKPKVPEDGRMAASGSQGPSCESTSNGRHSASSPKA
PDPEGLARVSPDSPEIIISELQQYADVAAARESRSQSSPSTNAALPGPPAQLMDSSAVPGTALGTEPRLGGHCLNS
SLLVTGQPCGDRHPVLDLRGHKRKLATPPAAQESSRRRSRKGHLPAPVQPYEHGYPVSGGFAMPPVSLNHNLTTP
FTSQAGENSLFMGSTPSYYQLSNLLADARLVFPVTTDPLVPAGPVSSSSTATSVTASNPSFMLNPSVPGILPSYS
LPFSQPLLSEPRMFAPFSPVLP SNLSRGMSIYPGYMSPHAGYPAGGLRSQVPPFDSHEVAEVGFSSNDDDKD
DDVIEVTGK

1276/6881
FIGURE 1186

GCCACCGCCGCGCGGAGTCCTTTTGTCCAAGATGGCGGCGCGGGGGCGCTGCCTCCTCGGCGCGCGCTCCGCC
GCCGCGCTGTGAGAAACCTACGGGCGCGCCGCGCGCGCCAGCGCCATGAAGCGGCAGAGCGAGCGAGACTC
TAGCCCGAGCGGGCGCGGCTCGTCATCGTCCGCCAAGCGTCCGCGGGAGCGCGAACGGGAGGCGGAGGCGGGCGG
GCGGCGGGCGCGCACAAAGGCTCTGGCGGCGCCAAGCACCCGGTTCCAGCGCGGGCCCCGCGACAAACCCCGCGG
CAGCGGAAGCGGCGGGGGCGGGCATCGCGACGCGCGCGGCACCGGGGACGCGAATCACCGCGCGAGTAGCGGGCG
CTCCTCGGGCTCCGGCGCTGGCGGCGGGGACGCGGCGGCAAGGCTCGGGGGACCCGGGCGCTCCGGCATGTC
GCCCCGCGCTCTCTCTGCGCGCGCTCCGCCACCGCTGGGGCGGAGCCCGCTGTCCCGGCTCATCCGCGGCG
CGCGCTGAGTACAAGACGTTGCTCATCAGCAGCTTGAGCCCCGCGCTGCCCGCGGAGCACCTCGAGGACCGGT
CTTCCACCAGTTCAAGCGCTTCGGCGAGATCAGCCTCCGCTGTGCGACACGCTGAGCTGGGCGGTGTGGCCTA
CGTGAATTTCCGGCACCCACAGGACGCGCGGAGGCCCGCCAGCAGCGCTGGCCCCGCGAGCTGCTGCTTACGA
CCGCCCCGCTCAAGGTAGAGCCCGTGTACCTGCGTGGCGGCGCGGGAGCAGTCGGCGAAGTAGCAGCAGCAGCGC
CGCGCTTCCACGCTCCCCAGGGCGCGCGCGCGCGCGACCCGCTCGGCTACCTCCCGCTACACGGAGGCTA
CCAGTACAAGCAGCGCTCGCTGTCCCCGCTCGCTGCCCGCCCCCTGCGGGAGCCCCGTGCCCGTACGCGCGCGC
AGCCTTCGCCCCGATGCCGCTGTGCCCGCGCGCTGGGACTGTCCCGGGAGCGGGCCCTGGACTACTACGGGT
GTACGACGACCGTGGGCGCCCCATGGCTACCCAGCTGTGTGTGAGGAGGACCTGATGCCCGAGGATGACCAGCG
GGCCACGCGCAACCTCTTATTGTAACCTGGACCACAGCGTATCTGAGGTGGAGCTGCGAAGGGCCTTCGAGAA
ATATGGCATCATCGAGGAGGTGTCATCAAGAGGCTGCCCGTGGCCAGGGCGGTGCCTATGCCTTCTCAAGTT
CCAGAACCTGGACATGGCCCATAGGGCTAAGGTGGCCATGTCCGGCCGAGTGATTGGTCGAACCCCATTAAGAT
AGGCTATGGCAAGGCCAACCCCACTCGTCTCTGGGTGGGTGGCTGGGACCTAACACGTCAGTGGCGGCTCT
GGCCCGAGAGTTTGACCGCTTTGGGAGCATTTCGGACCATGATCAGCTCAAAGGAGATAGCTTTGCCTATATTCA
GTACGAGAGCTTGACGCGAGCCCGAGCGCGCTGTGCTAAATGAGGGGTTTCCCTTGGGTGGACAGACCGCAG
GCTCCGCGTGGATTTTGCCAAAGCAGAGGAGACTCGGTACCCCGAGCAGTACCGCCCTCGCCACTCCCTGTGCA
TTATGAGCTGCTCAGATGGATACACCCGGCACCGCAACCTGGACGCGGACCTGGTGGGGACAGGACGCCCCC
ACACCTTCTGTACTCAGACCGAGACCGGACTTTTTTGAAGGGGACTGGACAGCCCCAGTAAAGCTCTGACCG
CCGAAACAGCCTTGAGGGCTACAGTCGCTCAGTGCGCAGCCGAGTGGTGAGCGTTGGGGGCGAGATGGAGACCG
TGGTTTGCCCAAGCCCTGGGAAGAGAGGCGGAAACGGAGAAGCCTTTCCAGTGACCGTGGGAGGACAACCCATC
ACCATATGAGGAACGGAGTAGGACCAAGGGCAGTGGGACGAGTCAGAGCGGGGCTCCGACCGCACCCCTGAGCG
CAGCCGCAAGGAGAACCACTCCAGTGAAGGGACCAAGGAGTCCAGCAGCAACTCCCTCAGCAACAGCAGACATGG
GGCTGAGGAACGGGGCCACCACCACCACCACGAGGCTGCAGACTCTTCCACGGGAAGAAGGCAAGAGACAG
CGAGCGCAATCACCGGACCACAGAGGCGGAGCCCAAGCCTCTGGAAGAGCCAAAACAGAGACCAAAAAGCTGAA
GAATCTTTCAGAGTACGCTCAGACACTACAGCTGGGTGGAATGGGCTTCTGGTGTGAAAAACAGCTGCTTCCC
CACGCTATGCATATCCTAGAGGGGGACAGGGGGTGATCAGCAGTCTCCTCAAAGACCACACTTCTGGGAGCAA
GCTGACCCAGCTGAAGATCGCCAGCGCTTCGACTGGACCAGCCCAAGCTTGACGAGGTCACACGACGCATCAA
GCAGGGGAGCCCCAACGGCTATGCGTCTCTTAGCCACCCAGGCAACCCCAAGTGGGCTTGCACTGAGGGGAT
GCCCCAGTAGAGCCCGGTCTGCAGAGGCGGCTTCTCAGGAACCTGGTCTCCTACTTGAAACAGAAGCAGCGCGC
AGGGGTGATCAGCTTGCCAGTGGGGGGTCCAAGGGCAGAGACGGCACAGGCATGCTCTACGCCTTCCACCCTG
CGACTTTTCCAGCAGTACCTCCAGTCAGCACTAAGGACATTGGGCAAGCTAGAAGAAGACATGGTGATAGT
CATCGTCAGAGACACTGCCAGCCCAAGCCTGTCTTTCCAGCGTCATGTTTGTGTACAAAAGCAGTTATTTTA
AAATCTGATCCCCTCTCTACCCTACCCTTTGGTTTGAATTATCTCCTGGGTATTTTGGTTCATTGGGTGGGG
ATCAAAGTCTGTCCACCACCAAACTAAGTTCTTAGATTTTGGGGGATTTTTTTTTAAACGATGAGAAGGGA
ATCCGGTTATGTTGATTTCTAGTGTACAAGATACTGTCTGTGTGTTCTGTATTTTTTTATTTTTTGACCAACT
GTATGGAAAGTTGTCAAGTAAACCTTTGACAGAGGATGGATTTTAAACCTG

1277/6881

FIGURE 1187

CTTCCGTCGCTGCTGTAGTCGCTTCCTGCGGCCAGCCCGGGTTCAATCAGCGGCCGACAACTGTCTAGGGCTCAG
ACACCACCAGCCAATGAGGGAGGGCAGCGTGGAGCCGCCCGTCTGGGCTCGCGGCTCCTGGACCAATGGGGAAGT
GGCATGTGGGAGGGCGCCGGGGGGCCCCCGCCAATGGGGAGCTACGGCGCGCGGCGGGGACTTGGAGGCGGTGC
GGCGCGGCGGGTGCAGTTCAGTCGGTTCGGCGGCGGCAGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGATGA
GGAGGATGTGGGCCACGCAGGGGCTGGCGGTGGCGCTGGCTCTGAGCGTGCTGCCGGGCAGCCGGGCGCTGCCGC
CGGGCGACTGCCAAGTTTGTATTTCTTATCTGGGAAGATTTTACCAGGACCTCAAAGACAGAGATGTCACATTCT
CACCAGCCACTATTGAAAACGAACCTTATAAGTTCTGCCGGGAAGCAAGAGGCAAAGAGAATCGGTTGTGCTACT
ATATCGGGGCCACAGATGATGCAGCCACCAAAATCATCAATGAGGTATCAAAGCCTCTGGCCCACCACATCCCTG
TGGAGAAGATCTGTGAGAAGCTTAAGAAGAAGGACAGCCAGATATGTGAGCTTAAGTATGACAAGCAGATCGACC
TGAGCACAGTGGACCTGAAGAAGCTCCGAGTTAAAGAGCTGAAGAAGATTCTGGATGACTGGGGGGAGACATGCA
AAGGCTGTGCAGAAAAGTCTGACTACATCCGGAAGATAAATGAAGTATGCCTAAATATGCCCCAAGGCAGCCA
GTGCACGGACCGATTTGTAGTCTGCTCAATCTCTGTTCACCTGAGGGGGAAAAACAGTTCAACTGCTTACTCC
CAAAACAGCCTTTTTGTAATTTATTTTTAAGTGGGCTCCTGACAATACTGTATCAGATGTGAAGCCTGGAGCTT
TCCTGATGATGCTGGCCCTACAGTACCCCATGAGGGGATTCCCTTCCTTCTGTTGCTGGTGTACTCTAGGACTT
CAAAGTGTGTCTGGGATTTTTTTATTAAAGAAAAAAATTCTAGCTGTC

1278/6881
FIGURE 1188

ACCAGCCCAGCCTTTTCAGTGCAGGCTCCAGCCCTCCACCCCCACCCGAGTTGCAGGATGTCGATGACAGACTTGC
TGAACGCTGAGGACATCAAGAAGGCGGTGGGAGCCTTTAGCGCTACCGACTCCTTCGACCACAAAAAGTTCTTCC
AAATGGTCGGCCTGAAGAAAAAGAGTGCGGATGATGTGAAGAAGGTGTTTCACATGCTGGACAAGGACAAAAGTG
GCTTCATCGAGGAGGATGAGCTGGGATTTCCTAAAAGGCTTCTCCCCAGATGCCAGAGACCTGTCTGCTAAAG
AAACCAAGATGCTGATGGCTGCTGGAGACAAAGATGGGGACGGCAAAATTGGGGTTGACGAATTCTCCACTCTGG
TGGCTGAAAGCTTAAGAAGCACTGACTGCCCTGGTCTTCCACCTCTCTG

1279/6881
FIGURE 1189

MSMTDLLNAEDIKKAVGAFSATDSFDHKKFFQMVGLKKKSADDVKKVFHMLDKDKSGFIEEDELGFILKGFSPDA
RDLSAKETKMLMAAGDKDGDGKIGVDEFSTLVAES

1280/6881
FIGURE 1190

CCGCGCCAGTCGCCTAGCAGGTCTCTACCGGCTTATTCTGTGCCGGATCTTCATCGGCACAGGGGCCACTGAG
ACGTTTCTGCCTCCCTCTTTCTTCTCCGCTCTTTCTCTCCCTCTCGTTTAGTTGCCTGGGAGCTTGAAAGGA
GAAAGCACGGGGTCGCCCCAAACCCCTTCTGCTTCTGCCCATCACAAGTGCCACTACCGCCATGGGCCTCACTAT
CTCCTCCCTCTTCTCCCGACTATTTGGCAAGAAGCAGATGCGCATTTTGATGGTTGGATTGGATGCTGCTGGCAA
GACAACCATTCTGTATAAACTGAAGTTAGGGGAGATAGTCACCACCATTCTACCATTTGGTTTTAATGTGGAAC
AGTAGAATATAAGAACATTTGTTTCACAGTATGGGATGTTGGTGGTCAAGATAGAATTAGGCCTCTCTGGAAGCA
TTACTTCCAGAATACCCAGGTCTTATTTTTGTGGTAGATAGCAACGATCGTGAAAGAATTCAGGAAGTAGCAGA
TGAGCTGCAGAAAATGCTTCTGGTAGATGAATTGAGAGATGCAGTGCTGCTACTTTTTGCAAACAAACAGGATTT
GCCAAATGCTATGGCCATCAGTGAAATGACAGATAAACTAGGGCTTCAGTCTCTTCGTAACAGAACATGGTATGT
TCAAGCCACTTGTGCAACACAAGGAACGGTCTGTATGAAGGACTTGACTGGCTGTCAAATGAGCTTCAAACG
TTAAATGAAATTGGATATCTAACCAAGGACATGTTTGATAAAATTGGTCTAGGCTTGTTACAACAAAATTAGTTT
GTATCTTGTTATTAAACAGTATCTGGGACTGGTTTGGGCAGAATATTAACTTATTTGTTGCCAATTATTGTT
TACCGAGTATAATGTTGCTATTTAGCAATGTGCTTGGTTTTAAAGAAATTCTCCTTGGGAAAAAGTATCCTCTT
TTAATTTTACTTCCATAAGCGTAAATGCCTGGACATAGCTCTTGTGCAACCTTTAAATAAATTGTTTGAGTGT
TTTTTGAGCCCCAGACAAATAATGTTTTAAAGTTATCCCCTTGCTACTTTACTGATACCTTTATCATTCCTGAGA
CAGTTTGCTAATTTAAAAATGTAGCATTCCATTTGTATTTATTTCTCTCCCTTGCCAAAAAGATTTCTAATACT
GCTTGTACCAGCCAGAGAAAGATCCAAACACTACTCAGCTCTCTTGCACTGAGGAAATTTTCCCCCTACATTG
ACTCCTGGCCTACATCAGCCAACTTAACCTTGGTGGGGTTTGGATTGATAGCCAATTAGTTCTGTGCTGGTTG
CAAAGAATTGATATTTAGATGGTTTTTAATACTCAGCAGATTGCTTCTTTATATTGTGCTTTTTTATGTTGC
ATGTTGCTTTTGTATCAGCCTGATTTTTTGCTCAGTATATGATAGTTCTGCTGATGTTTTGTTTATTGGGCAGA
CATATCTTCATTAAGAGTTTTTGGAACACTACCAAATTCGATGAATACATTTCTTCTTAACCCATTGGAATT
ATTCCTAATAAAATGATAAAATACGT

1281/6881
FIGURE 1191

MGLTISSLFSRLFGKKQMRILMVGLDAAGKTTILYKLLGEIVTTIPTIGFNVETVEYKNICFTVWDVGGQDRIR
PLWKHYFQNTQGLIFVVDSDNRERIQEVADELQKMLLVDELDAVLLLFANKQDLPNAMAISEMTDKLGLQSLRN
RTWYVQATCATQGTGLYEGLDWLSNELSKR

1282/6881

FIGURE 1192

TCAGGAATCGGGATTAAAAGTTAACCAGCCAGCATCCTTTGCTATAAGGTTGAATGGCGCAAAAGGCAAGATTGA
TGTATAGGTGCACAGCCCCTCTGGAGCCGTGGAGGAGTGCCACGTGTCTGAGCTGGAGCCAGATAAGTATGCTGT
TCGCTTCATCCCTCATGAGAATGGTGTCCACACCATCGATGTCAAGTTCAATGGGAGCCACGTGGTTGGAAGCCC
CTTCAAAGTGCGCGTTGGGGAGCCTGGACAAGCGGGGAACCCCTGCCCTGGTGTCCGCCTATGGCAGGGGACTCGA
AGGGGGCACCACAGGTATCCAGTCGGAATTCTTTATTAAACACCACCCGAGCAGGTCCAGGGACATTATCCGTAC
CATCGAAGGCCCATCCAAGGTTAAATGGATTGCCAGGAAACACCTGAAGGGTACAAAGTCATGTACACCCCAT
GGCTCCTGGTAACTACCTGATCAGCGTCAAATACGGTGGGCCCAACCACATCGTGGGCAGTCCCTTCAAGGCCAA
GGTGACAGGCCAGCGTCTAGTTAGCCCTGGCTCAGCCAACGAGACCTCATCCATCCTGGTGGAGTCAGTGACCAG
GTCGTCTACAGAGACCTGCTATAGCGCCATTCCCAAGGCATCCTCGGACGCCAGCAAGGTGACCTCTAAGGGGCG
AGGGCTCTCAAAGGCCCTTGTGGGCCAGAAGAAGTTCTTCTGGTGGACTGCAGCAAAGCTGGCTCCAACATGC
TGCTGATCGGGGTCCATGGGCCACCACCCCTGCGAGGAGGTCTCCATGAAGCATGTAGGCAACCAGCAATACA
ACGTACATACGTCGTCAGGAGAGGGGCGATTATGTGCTGGCTGTGAAGTGGGGGGAGGAACACATCCCTGGCA
GCCCTTTTCATGTACAGTGCCTTAAACAGTTTTCTCAAATCCTGGAGAGAGTTCTTGTGGTTGCTTTTGTGTC
TTGTTTGTAAATTCATTTTATACAAAGCCCTCCAGCCTGTTTGTGGGGCTGAAACCCCATCCCTAAATATTGCTG
TTGTAATGCCTTCAGAAATAAGTCCTAGACTGGACTCTTGAGGGACATATTGGAGAATCTTAAGAAATGCAAG
CTTGTTCAGGGGGCTGAGAAGATCCTGAGTACACTAGGTGCAAAACCAGAACTCTTGGTGAACAGACCAGCCACT
GCAGCAGACAGACCAGGAACACAATGAGACTGACATTTCAAAAAACAAACTGGCTAGCCTGAGCTGCTGGTTC
ACTCTTCAGCATTTATGAAACAAGGCTAGGGGAAGATGGGCAGAGAAAAAGGGGACACCTAGTTTGGTTGTCATT
TGGCAAAGGAGATGACTTAAATCCGCTTAATCTCTTCCAGTGTCCGTGTTAATGTATTGGCTATTAGATCACT
AGCACTGCTTTACCGCTCCTCATCGCCAACACCCCATGCTCTGTGGCCTTCTTACACTTCTCAGAGGGCAGAGT
GGCAGCCGGGCACCCCTACAGAACTCAGAGGGCAGAGTGGCAGCCAGGCCCACATGTCTCTCAAGTACCTGTCCC
CTCGCTCTGGTGATTATTTCTTGCAAGATCACCACAGGACCATCCCGGCAGTCATGGTTTGTCTTAGTTTTT
CAAGTCCGTTTCAGTCCCTTCCCTTGGTCTGAAGAAATCTGCAAGTGGCGAGCAGTTTCCCACTTGCCAAAGATCC
CTTTTAACCAACACTAGCCCTTGTTTTTAACACAGCTCCAGCCCTTCATCAGCCTGGGCAGTCTTACCAAAATG
TTTAAAGTGATCTCAGAGGGGGCCATGGATTAAACGCCCTCATCCCAAGGTCCGTCCCATGACATAACACTCCACA
CCCGCCCCAGCCAACCTTCATGGGTCACTTTTTCTGGAAAATAATGATCTGTACAGACAGGACAGAATGAACTCC
TGCGGGTCTTTGGCCTGAAAGTTGGGAATGGTTGGGGGAGAGAAGGGCAGCAGCTTATTGGTGGTCTTTTACCA
TTGGCAGAAACAGTGAGAGCTGTGTGGTGCAGAAATCCAGAAATGAGGTGTAGGGAATTTGCCTGCCTTCTGTC
AGACCTGAGCTGGCTTTGGAATGAGGTTAAAGTGTGAGGGACGTTGCCTGAGCCCAATGTGTAGTGTGGTCTGG
GCAGGCAGACCTTTAGGTTTTGCTGCTTAGTCTGAGGAAGTGGCCACTCTTGTGGCAGGTGTAGTATCTGGGGC
GAGTGTGGGGGTAAAAGCCCACCCTACAGAAAGTGAACAGCCCGGAGCCTGATGTGAAAGGACCACGGGTGTT
GTAAGCTGG

1283/6881
FIGURE 1193

ATAGAGGACACGACCAAGATGGCGGCGGTGTCTGGCTTGGTGCGGAGACCCCTTCGGGAGGTCTCCGGGCTGCTG
AAGAGGCGCTTTCACTGGACCGCGCCGGCTGCGCTGCAGGTGACAGTTCGTGATGCTATAAATCAGGGTATGGAT
GAGGAGCTGGAAAGAGATGAGAAGGTATTTCTGCTTGGAGAAGAAGTTGCCAGTATGATGGGGCATACAAGGTT
AGTCGAGGGCTGTGGAAGAAATATGGAGACAAGAGGATTATTGACACTCCCATATCAGAGATGGGCTTTGCTGGA
ATTGCTGTAGGTGCAGCTATGGCTGGGTGCGGCCCATTTGTGAATTTATGACCTTCAATTTCTCCATGCAAGCC
ATTGACCAGGTTATAAACTCAGCTGCCAAGACCTACTACATGTCTGGTGGCCTTCAGCCTGTGCCTATAGTCTTC
AGAGGGCCCAATGGTGCCTCAGCAGGTGTAGCTGCCCAGCACTCACAGTGCTTTGCTGCCTGGTATGGGCACTGC
CCAGGCTTAAAGGTGGTCAGTCCCTGGAATTCAGAGGATGCTAAAGGACTTATTAAATCAGCCATTCGGGATAAC
AATCCAGTGGTGGTGTAGAGAATGAATTGATGTATGGGGTTCCTTTTGAATTTCCCTCCGGAAGCTCAGTCAAAA
GATTTTCTGATTCCCTATTGGAAGGCCAAAATAGAAAGGCAAGGAACACATATAACTGTGGTTTCCCATTTCAAGA
CCTGTGGGCCACTGCTTAGAAGCTGCAGCAGTGCTATCTAAAGAAGGAGTTGAATGTGAGGTGATAAATATGCGT
ACCATTAGACCAATGGACATGGAAACCATAGAAGCCAGTGTGATGAAGACAAATCATCTTGTAACTGTGGAAGGA
GGCTGGCCACAGTTTGGAGTAGGAGCTGAAATCTGTGCCAGGATCATGGAAGGTCCCTGCGTTCAATTTCTGGAT
GCTCCTGCTGTTTCGTGTCACTGGTGTGATGTCCCTATGCCCTTATGCAAAGATTCTAGAGGACAACCTCTATACCT
CAGGTCAAAGACATCATATTTGCAATAAAGAAAACATTAAATATTTAGTTTGGACTTGAATATCAAGTCGTTGAA
ATTTATTTGAAATACTTGCTGGCACTGCACCTGGATTTGTACTGCAAGACCTGACTATTCATAACGGAAAACGAT
TTCTAAAGCAACAGCAGGTATTTTGTACAGGGAAGTTTAAATGTGTTTGTGTATGGAAAACCTCTCCACTCTCCT
CCCCTAGATGCCATGCTTCCTTTTGTCTGTTACGGTTGCCATGTTCTTTGAATAACAAATTATATAACATTTTAT
CCTCTCTCACCACAAGGACAAAGTATGGATGTGGCAGAGTCCTCATGAAAGATGTATCCAAACAAGATAACTTAT
ATGTATAAAATTAAAGCATATAATATACATTTACTGTTAGTTTGTGTTTGTGATAAGGAATAAAGGAATTTCTAACAT

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1284/6881
FIGURE 1194

MAAVSGLVRRPLREVSGLLKRRFHWTPAALQVTVRDAINQGMDEELERDEKVFLLGEEVAQYDGAYKVSRLWK
KYGDKRIIDTFISEMGFAGIAVGAAMAGLRPICEFMTFNFSMQAIDQVINSAAKTYMSGGLQPVPVFRGPNGA
SAGVAAQHSQCFAAWYGHCPGLKVVSPWNSEDAKGLIKSAIRDNNPVVLENELMYGVFFEFPPAQSKDFLIPI
GKAKIERQGTHITVVSHSRPVGHCLEAAVLSKEGVECEVINMRTIRPMDMETIEASVMKTNHLVTVEGGWPQFG
VGAEICARIMEGPAFNFLDAPAVRVTGADVPMFYAKILEDNSIPQVKDIIFAIKKTLNI

1285/6881
FIGURE 1195

GTCAGCCGCTGTCCCCTTAGCCGCGATGCCGCTGGAGAACCTGGAGGAGGAGGTCTGCCCAAGAACCCCGACTT
GCGTATCGCGCAGCTGCGCTTCCTGCTCAGCCTGCCCAGCACCGCGAGACGCTGCCGTGCGCGACGAGCTGAT
GGCGGCCGTCCGCGATAACAACATGGCTCCTTACTATGAAGCCTTGTGCAAATCCCTCGACTGGCAGATAGACGT
GGACCTACTCAATAAAATGAAGAAGGCAAATGAAGATGAGTTGAAGCGTTTGGATGAGGAGCTGGAAGATGCAGA
GAAGAATCTAGGAGAGAGCGAAATTCGCGATGCAATGATGGCAAAGGCCGAGTACCTCTGCCGGATAGGTGACAA
AGAGGGAGCTCTGACAGCCTTTTCGAAGACATATGACAAAACCTGTGGCCCTGGGTCACCGATTGGATATTGTATT
CTATCTCCTTAGGATTGGCTTATTTTATATGGATAATGATCTCATCACACGAAACACAGAAAAGGCCAAAAGCTT
AATAGAAGAAGGAGGAGACTGGGACAGGAGAAACCGCCTAAAAGTGTATCAGGGTCTTTATTGTGTGGCTATTTCG
TGATTTCAAACAGGCAGCTGAACCTTCCTTGACACTGTTTCAACATTTACATCCTATGAACCTCATGGATTATAA
AACATTTGTGACTTATACTGTCTATGTCAGTATGATTGCCTTAGAAAAGACCAGATCTCAGGGAAAAGGTCATTAA
AGGAGCAGAGATTCTTGAAGTGTTGCACAGTCTTCCAGCAGTTCGGCAGTATCTGTTTTCACTCTATGAATGCCG
TTACTCTGTTTTCTTCCAATCATTAGCGGTTGTGGAACAGGAAATGAAAAAGGACTGGCTTTTTGCCCTCATT
TCGATACTATGTAAGAGAAATGAGAATTCATGCATACAGTCAGCTGCTGGAATCATATAGGTCATTAAACCTTGG
CTATATGGCAGAAGCGTTTGGTGTGGTGTGGAATTCATTGATCAGGAACCTGTCCAGGTTTATTGCTGCCGGGAG
ACTACACTGCAAAATAGATAAAGTGAATGAAATAGTAGAAACCAACAGACCTGATAGCAAGAACTGGCAGTACCA
AGAAACTATCAAGAAAGGAGATCTGCTACTAAACAGAGTTCAAAAACCTTCCAGAGTAATTAATATGTAAAGCCA
TGTAACATAACAAAGGATTTGCTTTAGAGATAATTATTGGAATTTTATAGCTTACTTCACAATGTGCCCAGGTC
AGCTGTATAAAATAAATACTGCATTGTGTTTC

1286/6881
FIGURE 1196

MPLNLEEEGLPKNPDLRIAQLRFLLSLPEHRGDAAVRDELMAAVRDNNMAPYYEALCKSLDWQIDVDLLNKMKK
ANEDELKRLDEELEDKKNLGESEIRDAMMAKAEYLCRIGDKEGALTAFRKTYDKTVALGHRLDIVFYLLRIGLF
YMDNDLITRNTAKSLIEEGGDWDRNRNLKVYQGLYCVAIRDFKQAAELFLDTVSTFTSYELMDYKTFVTYTVY
VSMIALERPDLREKVIKGAEIFEVLHSLPAVRQYLFSLYECRYSVFFQSLAVVEQEMKKDWLFAPHYRYVREMR
IHAYSQLESYRSLTLGYMAEAFGVGVFEIDQELSRFIAAGRLHCKIDKVNEIVETNRPD SKNWQYQETIKKGD
LLNRVQKLSRVINM

1287/6881
FIGURE 1197

GAGAAGCCATGAGCAGCAGTCTCTCGCAACACCCTGTACGAGGCGGTGCGGGAAGTCCTGCACCGGAACCAGCGC
AAGCGCCGCAAGTTCCTGGAGACGGTGGAGTTGCAGATCAGCTTGAAGAAGTATGACCCCCAGAAGGACAAGTGC
TTCTCGGGCACCCTCAGACTTAAGTCCACTCCCCGCCCTAAGTTGTGTGTGTGTGTCTCTGGGGGACCAGCAGCAC
TGTGACGAGGCTAAGGCCGTGGATATCCCCACATGGACATCGAGGCGCTGAAAAAACTCAAAAAGAATAAAAAA
CTGGTCAAGAAGCTGGCCAAGAAGTATGATGCGTTTTTGGCCTCAGAGTCTCTGATCAAGCAGATTCCACGAATC
CTCGGCCCAGGTCTAAATAAGGCAGGAAAGTTCCTTCCCTGCTCACACACAACGAAAACATGGTGGCCAAAGTG
GGTGAGGTGAAGTCCACAATCAAGTTCCAAATGAAGAAGGTGTTATGTCTGGCTGTAGCTGTTGGTCACGTGAAG
ATGACAGCCGATGAGCTTGTGTATAACATTACCTGGCTGTCAACTTCTTGGTGTCAATGCTCAAGAAAACTGG
CAGAATGTCCGGGCCTTATATATCGAGAGCACCATGGGCAAGCCCCAGCGCCTATATTAAGGCACATTTGAATAA
ATTCTATTACCAGTTCAAAAAAAAAAAAAAAAAAAAA

1288/6881
FIGURE 1198

GCTCAAGTGGCCAAGGCAAGATGGGTCAAAGTCAGAGTGGTGGTCAITGGTCCTGGAGGTGGCAAGAAGGATGACA
AGGACAAGAAAAAGAAATATGAACCTCCTGTACCAACTAGAGTGGGGAAAAAGAGAAGAAAACAAAGGGACCAG
ATGCTGCCAGCAAACCTGCCACTGGTGACACCTCACACTCAGTGCCGGTTAAAATTACTGAAGTTAGAGAGAATTA
AAGACTATCTTCTCATGGAGGAAGAATTCATTAGAAATCAGGAACAAATGAAACCATTAGAAGAAAAGCAAGAGG
AGGAAAGATCAAAAGTGGATGATCTGAGGGGGACCCCGATGTCAGTAGGAACCTTGGAAAGAGATCATTGATGACA
ATCATGCCATCGTGTCTACATCTGTGGGCTCAGAACACTACGTCAGCATTCTTTTCATTTGTAGACAAGGATCTGC
TGGAACCTGGCTGCTCGGTCCTGCTCAACCACAAGGTGCATGCCGTGATAGGGGTGCTGATGGATGACACGGATC
CCCTGGTCACAGTGATGAAGGTAGAAAAGGGCCCCCAGGAGACCTATGCAGATATTGGGGGGTTGGACAACCAAA
TTCAGGAAATTAAGGAATCTGTGGAGCTTCCCTCTACCCATCCTGAATATTATGAAGAGATGGGTATAAAGCCTC
CTAAGGGGGGTCATTCTCTATGGTCCACCTGGCACAGGTAAAACCTTGTTAGCCAAAGCAGTAGCAAACCAACCT
CAGCCACTTTCTTGAGAGTGGTTGGCTCTGAACCTATTTCAGAAGTACCTAGGTGATGGGCCCCAACTCGTACGGG
AATTGTTCCGAGTTGCTGAAGAACATGCACCGTCCATCGTGTATTATGATGAAATTGACGCCATTGGGACAAAA
GATAAGACTCCAATTCTGGTGGTGAGAGAGAAATTCAGCGAACAAATGTTGGAAGTCTGAACCAAGTTGGATGGAT
TTGATTCTAGGGGAGATGTGAAAGTTATCATGGCCACAAACCGAATAGAACTTTGGATCCAGCACTTATCAGAC
CAGGCCGCATTGACAGGAAGATTGAGTTCCCCCTGCCTGATGAAAAGACGAAGAAGCGCATCTTTCAGATTCACA
CAAGCAGGATGACGCTGGCTGATGATGTAACCTGGACGACCTGATCATGGCTAAAGATGACCTCTCTGGTGCTG
ACATCAAGGCAATCTGTACAGAAGCTGGTCTGATGGCCTTAAGAGAACGTAGAATGAAAGTAACAAATGAAGACT
TCAAAAAATCTAAAGAAAATGTTCTTTATAAGAAACAGGAAGGCACCCCTGAGGGGCTGTATCTCTAATGAACCA
TGGCTGTCATCAGGAAAATGGTTGGGAGATTTCTCAGTCCCTGAAAGGGATGAGGCTGGGGGAGTTGCCCAGAGG
AATCCCTGTTCCCACTGATTTTTATTAGCAAAACATCCTGTGTCTTTTGGAGTACGATGTGTAAGTGCCCATGG
GTGGCCTGTTGGTCACTGTGCAGCAGTCTGCTTCCCAATAAAGCGTGCTCTTTCACAA

1289/6881
FIGURE 1199

ATGCCTTCAAAGGAAAAGCAAGGGACACTCACCTTGCAAAACCATCAAACTATTCCCACAGACGCCACATGAGC
CCCCATTTATCTGACTTAAAAGAAGCAGGGTCTGCTGGGATTTCGAATCCTCTGGTTCCAGAGAGAGAAGCTCTTT
CAAAGACTGGATTCTGGCCACAAAAGAAGGTTCTGCTTACTGGAATCAAGAGGTCAAAGATTTTTCTGAATCA
TGCATCCACGGAGAAGAGCCCATTAGGGCTATTCCAGCAGACAGCAGTAAGGATGTCCATGAGCTTTATGTTGTT
GTTGGGAGCTGGGATTCTACTCTTCCAGAAGAATATGACCTCAAAAGGAGCCACCACAGAACGAGCTCGGCACCC
ATCTACGAATGTATTGCTAAGGATCATTGGGGATGGGGTGACCCAGAAGTGAAGTGGCTCCATGATCCATTAAAC
AATCACCTGAAATCCACAGTGCCAGTCAACTAATGGGGCTTGGAGCCATCATTAGGTCACTGGAAAATGATATC
TTCTTGAGGTTGATACTGGCTTACCATCCTGAGAGCAGAAGGCTTGAGGGAGGAACAGCCTCCTGGGCATGGA
GGCACCTGCCATCCCACATCAAATCACAGAGCCATGCTTAAAGGGCCAGGTGGATGACTTATGTGGAAGAAGTG
AGCCGGGTGAGGATTTCTACTTCGAGAAACCTTGCTCGAAGCGCTTTCATCATTCTCTCTACACAACAAACCTT
GAACCTTTAGAAGCAGCTCTTGGCACAGGAGCCTCCAACCCGTTTTTCAGCCGGCTTTCTCTACTTGTCTCAT
TCCATGATCACAGAAAACAGCTCCATTAAAGACTCTTTTCAGGTCTACCAAAGAGCTAGTGATTGCACTCAATCGA
TGTTTCTTCGGCATTACTCAAAGTGACGCTACACTCAGCCCACAGCTTCACATCAGATTTATCAGCAGAGAACAA
AAGAAGTACTTGAAATTGCCACTTACAACGTTTATGAGTAAACTGGAATCCAAAGTCTGGCCTCTAGCCAAGCGG
TTACGCCAGTGGCCTGACTCATATACAAAGAAGTTTGAGCACAGAATCTACCCCATCACATTTTCTGTTGAAAC
CCTCAGGAGTGGAAGAAATTGTTCAAACCTGTGCTGCCAGAGACTCTTCTTCCGATCAACCTGGAGCTCTAC
GCCTCCTACGTTTACCTGTCCATGTCTTACTACTTTGACCGCGATGATGTGGCTTTGAAGAACTTTGCCAAATAC
TTTCTTACCAATCTCATGAGGAGAGGGAACATGCCGAGAACTGATGACGTTGCAGAACCAACGAGGTGGCCGA
ATCTTCCTTCAGGATATCAAGAAACAGACTGTGACGACTGGGAGAGCGGGCTGAATGCGATGGATGACAAAAAT
GACCCCCATTTGTGTGACTTCATTGAGACACATTACCTGAATGAGCAGGTGAAAGCCATCAAAGAATTGGGTGGC
CACGTGACCAACTTGTGCAAGATGGGAGCACCCGAATCTGGCTCGGCAGAATATCTCTTTGACAAGCACACGCTG
GGAGACAGTGATAACGAAAGCTAA

1290/6881
FIGURE 1200

MPSKEKQGTLTLQNHQNYSHRRHMSPHLSDLKEAGSAGIRILWFQREKLFQRLDSGPQKKVPAYWNQEVKDFSES
CIHGEEP IRAIPADSSKDVHELYVVVGSDSTLPEEYDLKRSHHRTSSAPIYECIAKDHWGWDPEVNWLDPLN
NHPEIHSASQLMGLGAIIRSLENDIFLEVDTGFTILRAEGLREEQPPGHGGTCHPTS NHRAMLKRARWMTYVEEV
SRVRISTSRNLARSAFIILSYTTNPELLEAALGTGASNPF SRLLVSHSMITENS SIKTLFRSTKELVIGPKD
ARRDFQVVS RGSADFWRK LASSDGSICLLSIGKPELIRLIQLIK

1291/6881
FIGURE 1201

ATGATCTTTAATTTTGGCCCTGAATACCTTGGTTGCAATCACTGTGCTTGTTTATCCAAACGGCATTTCAGGAATAC
ATACGACAACTGCCTCCGAATTTCCCTACAGAGATGATGTCATGAGGCCTGGAGAAGCCAGGAGTTTCCAAGCT
GTGCTGCCACCCGAGCTCTGGATCCACCTGGCTGTGGTGGCCTGTGGCAATCGGCTGGAGGAGACGCTGGTCATG
CTCAAATCAGCTGTGCTTTTTAGCCACAGGAAGATCCAATTCCACATCTTCACTGAAGACTCTCTGAAGCCCGAG
TTTGATAAGCAGTTACGCCAGTGGCCTGACTCATATACAAAGAAGTTTGAGCACAGAATCTACCCCATCACATTT
TCTGTTGGAAACCCCTCAGGAGTGAAGAAATTGTTCAAACCCCTGTGCTGCCCAGAGACTCTTTCTTCGGATCAAC
CTGGAGCTCTACGCCTCCTACGTTTACCTGTCCATGTCTTACTACTTTGACCGCGATGATGTGGCTTTGAAGAAC
TTTGCCAAATACTTTCTTCACCAATCTCATGAGGAGAGGGAACATGCCGAGAACTGATGACGTTGCAGAACCAA
CGAGGTGGCCGAATCTTCCTTCAGGATATCAAGAAACCAGACTGTGACGACTGGGAGAGCGGGCTGAATGCGATG
GATGACAAAAATGACCCCATTTGTGTGACTTCATTGAGACACATTACCTGAATGAGCAGGTGAAAGCCATCAAA
GAATTGGGTGGCCACGTGACCAACTTGTGCAAGATGGGAGCACCCGAATCTGGCTCGGCAGAATATCTCTTTGAC
AAGCACACGCTGGGAGACAGTGATAACGAAAGCTAA

1292/6881
FIGURE 1202

GTCCGCGTGTCGAGTGGCTCTTCCTGGCTGCTGAGGCGGGTTAAGGTCTGAGGGTCTTGTGGGGCCACGGCGCTG
ATCACCAGGTGTTTGGCTTGGTCGGTTCTTATTTCTGCCTGGCAATGGCGACGTACACCTGCATAACTTGCCGG
GTGGCGTTCGCGACGCGGACATGCAGCGGGCCCACTATAAGACGGACTGGCACCCTACAACCTGCGGCGGAAG
GTGGCCAGCATGGCCCCAGTGACCGCCGAGGGCTTCCAGGAGCGAGTGCGGGCGCAGCGGGCCGTCGCGGAGGAG
GAGAGCAAGGGCTCGGCCACCTACTGCACCGTTTGCAGTAAGAAGTTGCCTCTTTCAACGCCTACGAGAACCAC
CTCAAGTCCCGCGTCACGTTGAGCTGGAGAAGAAGGCCGTGCAGGCAGTGAATCGGAAAGTGGAGATGATGAAT
GAAAAGAAGTTGGAGAAAGGACTGGGCGTGGACAGTGTGGACAAGGATGCCATGAACGCGGCCATCCAGCAGGCC
ATCAAGGCCACGCGTCCATGTCTCCAAGAAGGCGCCCCAGCGCTGCAAAGGAGGCCAGGAATGTCGTGGCC
GTGGGTACTGGTGGCCGTGGGACCCACGACCGAGACCCGAGTGAGAAACCACCCCGCTCCAGTGGTTTGAACAG
CAGGCCAAGAAGTTGGCAAAGCAGCAGGAGGAGGACAGCGAGGAGGAGGAAGAGGACCTGGATGGAGACGATTGG
GAAGATATTGATTCTGATGAAGAATTGGAATGTGAGGATACTGAAGCAATGGACGATGTGGTGGAGCAGGATGCA
GAGGAGGAAGAGGCTGAGGAAGGCCACCCCTTGGTGCCATCCCTATCACGGACTGCTTATTTTGTTCCTCAT
TCCAGCTCGCTGATGAAGAATGTGGCTCACATGACCAAAGACCACAGTTTCTTTATTCCTGATATAGAATATCTT
TCAGATATTAAGGGACTGATTAAATACTTGGGAGAGAAAGTTGGTGTGGCAAGATTTGCTTGTGGTGAACGAG
AAAGGGAAGTCCTTCTACTCCACAGAAGCTGTACAGGCACATATGAATGACAAAAGCCACTGTAAGCTCTTCACA
GATGGCGATGCTGCTTTGGAATTTGCAGACTTCTATGATTTTAGGAGTAGCTATCCAGATCACAAGGAAGGGGAG
GACCCCAATAAGGCTGAGGAGTTGCCCTCAGAAAAGAACTTGAATATGATGATGAAACCATGGAATTGATTCTG
CCTTCTGGTGCCAGAGTGGGTCATCGCTCCTTGATGAGATACTACAAACAGCGATTGGCTTGTCAAGAGCTGTG
GCAGTTGCCAAAAATCGGAAGGCCGTGGGCCGAGTACTTCAGCAGTACAGAGCCCTGGGATGGACTGGCAGCACA
GGAGCGGCTCTTATGCGAGAGCGAGACATGCAGTATGTCCAAAGGATGAAATCAAAATGGATGCTGAAGACAGGA
ATGAAGAACAATGCCACCAAGCAGATGCACTTTGGGTTCCAAGTGAGATTCTGAGAGTCTGCTGGGATTGAGCAA
TCATCTCCTGCCCAAGTTTCTCCTTGCCCTGAGGACCAGTGAAAGACAGATCATAGGAGAGACCTTTTGTCTGC
TACITCATTCTGACCTAATAATAAAGTTAGAACCAT

1293/6881
FIGURE 1203

GCAGACGCCATTATCCTCTGTTTCTCTGCTGCACCGACCTCGACGCCTTGCCCTGTGGCCCACTTGTTCACTGACT
ATAGGCTACTGCAGCACTGGGGTGTGAGTTGTTGGTCCCACCCAGAACGCTTCAGTTCTGCTCTGCAAGGATATA
TAATAACTGATTGGTGTGCCCCATTTAATAAAAGAATATGTAAACTGAACAGCCGGAAGAAACCTTCCCGAACACT
GAAACCAATGGTGAATTTGGTAAACACCCTGCAGAAGATATGGAAGAGTAACAAGCATTATAAAGATCTAGAAAC
ACTGATGAGATGGTTGAATTACGCATTCTGCTTCAGACCAAGAATGCTGGGGCAGTGATTGGAAAAGGAGGCAAG
AATATCAAGGCTCTCCGTACAGACTACAATGCCAGTGTTTCAGTCCCAGACAGCAGTGGCCCCGAGCACATATTG
AGTATCAGTGCTGGTATTGACACAATTGGAGAAATTCTGAAGAAAATCATCCCTACCTTGGAAGAGTACCAACAC
TATAAAGGAAGTGACTTTGACTGCGAGTTGAGGCTGTTGATTTCATCAGAGTCTAGCAGGAGGAATTATTGGGGTC
GAAGGTGCTAAAATCAAAGAACTTCGAGAGAACTCAAACCACCATCAAGCTTTTCCAGGAATGCTGTCCTTAT
TCCACTGACAAGAGTTGTTCTTATTGGAGGAAAACCCGATAGGGTTGTAGAGTGCATAAAGATCATCCTTGATCT
TATATATGAGTCTCCCATCAAAGACGTGCACAGCCTTATGATCCCAATTTTTATGATGAAACCTATGATTATGG
TGGTTTTACAATTATGTTTGATGACCGCTGTGGACGCCAGTGGGATTTCCCATGCGGGGAAGAGGTGGTTTTGA
CAGAATGCCCTCCTGGTCAGGGTGGGCGTCCCATGCCTCCATCTAGAAGAGATTATGATGATATGAGCCCTCGTCA
AGGACCACCTCCACCTCCTCCAGGACAAGGTGGTGAGGTGGTAGCAGAGCTCGGAATCTTCCTCTTCCTCCTCC
ACCACCACCTAGAGGGGGAGACCTCATGGCCTATGACAGAAGAGGGAGACCTGGAGACTGTTACCATGGCATGGT
TGGTTTCAGTGCTGATGAAACTTGGGACTCTGCAATAGATACATGGAGCCCATCAGAATGGCAGATGGCTTATGA
ACCACAGGGTGGCTCCAGATATGATTATTCCTATGCAGGGGGTCTGGCTCATATGGTAATCTTGGTGGACTTAT
TATTACTACACAAGTAACGATTCCCAAAGATTTGGCTGGATCTATTATTG

1294/6881
FIGURE 1204

ATGAATAAGGAGAATCACTCCTTGATAGCTGAGTTCATCCTCACAGGATTTACATATCATCCAAAGCTGAAGACT
GTTCTGTTTGTGGTGTTCCTTGCCATCTATCTGATCACCATGGTGGGGAACATTGGTTTGGTGGCATTGATTTAT
ATAGAGCAACGTCTTCACACACCAATGTACATATTTTAGGCAACCTAGTTCTGATGGATTCCCTGCTGTTCTCT
GCTATTACTCCCAAGATGTTAGAGAACTTCTTTTCTGAGGACAAAAGGATTACCCCTGTATGAATGTATGGCACA
TTTTATTTTCTCTGTCTTGCTGAAACTACAGACTGCTTTCTTCTGGCGGCAATGGCCTATGACTGCTATGTGGCC
ATATGCAACCCACTGCAGTACCACACCATGATGTCCAAGACACTCTGCATTGAGATGACTGCAGGAGCCTACCTA
GCTGGCAACCTGCATCCCATGATTGAAAACCTTTTGCCAGAGTAGCAGCCAACTTGAGGTTGCCCCGATTCT
GACATCATTGCAATCAAGTCACCTGACACATTTGTGAGAATTTATGCAGGAAATGCTCTATGTACAGTGAAG
TGTGATGAGAAAGTGAAAGTGTTTCTGTCCGTGGAACATCCTTTGATGCTGCAGCAACAAGTGGCGGTAGTGCC
AGTTCAGAAAAGGCATCAAGTACTTCACCAAGTGGAAATATCAGAGTGGCTTGACCAGAAATTAACAAAAAGTGAT
CGACCAGAGCTAACAGGTGCCAAAGTGGTGGTATCTGGTGAAGTCTATCCATCTTATAACACACTCATTCTTCAG
ACACATCACAATGCACATGATCAGATTACAGCTTTCTTTACCTTAAGGATGTCTTCAACCACCACAAGCCCTTC
CAAATTCCTACGTAGATAAAATTTGGCTTTTCTAG

1295/6881
FIGURE 1205

ATGATCAGGTGTGATAAGTGCTGTAATGAAGGCAATTACAAGGAGAGGATATTTGAAATCATTGCTGTGGAGGGT
GAGAGTGCGAACAAGGAAGTTGTGGTAGCATTGCTAGACAGTTTTGAGAGCCCAGCTCCAGAGCTTAAGGTTATT
GCTGAATTAAGCCACGCCCTCATTGCTACGATTCAGAGTACCCTGGTAATAGCTGAGCATGCAAATGATTCCCTA
GCACCCATTACTTTAAATACCATTACTGCAGCCACACGCCTTGGAGGTGAAGTGTCTGCTTAGTAGCTGGAACC
AAATGTGACAAGGTGGCACAAGATCTCTGTAAAGTAGCAGGCATAGCAAAAGTTCTGGTGGCTCAGCATGATGTG
TACAAAGGCCTACTTCCAGGTGAGGTTTTCCAGTAG

1296/6881
FIGURE 1206

TCTTTTCGCCATCTTTTGTCTTTCCGTGGAGCTGTCGCCATGAAGGTCGAGCTGTGCAGTTTTAGCGGGTACAAG
ATCTACCCCGGACACGGGAGGCGCTACGCCAGGACCGACGGGAAGGTTTTCCAGTTTCTTAATGCGAAATGCGAG
TCGGCTTTTCCTTTCCAAGAGGAATCCTCGGCAGATAAACTGGACTGTCCTCTACAGAAGGAAGCACAAAAAGGGA
CAGTCGGAAGAAATTCAAAGAAAAGAACCCGCCGAGCAGTCAAAATCCAGAGGGCCATTACTGGTGCACTCTCTT
GCTGATATAATGGCCAAGAGGAATCAGAAACCTGAAGTTAGAAAGGCTCAACGAGAACAAGCTATCAGGGCTGCT
AAGGAAGCAAAAAAGGCTAAGCAAGCATCTAAAAAGACTGCAATGGCTGCTGCTAAGGCACCTACAAAGGCAGCA
CCTAAGCAAAAGATTGTGAAGCCTGTGAAAGTTTCAGCTCCCCGAGTTGGTGGAACGCTTAAACTGGCAGATTA
GATTTTAAATAAAGATTGGATTATAACTCT

1297/6881
FIGURE 1207

MKVELCSFSGYKIYPGHGRRYARTDGKVFQFLNAKCESAFLSKRNPRQINWTVLYRRKHKKGQSEEIQKKRTRRÄ
VKFQRAITGASLADIMAKRNQKPEVRKAQREQAIRAAKEAKKAKQASKKTAMAAAKAPTKAAPKQKIVKPKVSA
PRVGGKR

1298/6881
FIGURE 1208

GCTCCTCCACAGGAGGCCTACACGCCGCCGCTTGTGCTGCCGCCATGTCGCTAGTGATCCCTGAAAAGTTCCAGC
ATATTTTGCAGTACTCAACACCAACATCGATGGGCAGCGGAAAATAGCCTTTGCCATCACTGCCATTAAGGGTG
TGGGCCGAAGATATGCTCATGTGGTGTGAGGAAAGCAGACACTGACCTCACCAAGAGGGCGGGAGAACTCACTG
ATGATGAGGTGGAACGTGTGATCACCGTTATGCAGAATCCACGCCAGTACAAGATCCCAGACTGGTTCTTGAACA
GACAGAAGGATGTAAAGGATGGAAAATATAGCCAGGTCTAGCCAATGGTCTGGACAACAAGCTCCGTGAAGACC
TGGAGCGACTGAAGAAGATTCGGGCCCCATAGAGGGCTGCGTCACTTCTGGGGCCTTCGTGTCCGAGGCCAGCACA
CCAAGACCACTGGCCGCCGTGGCCGCACCGTGGGTGTGTCCAAGAAGAAATAAGTCTGTAGGCCTTGCTGTGTAA
TAAATAGTTTATATACC

1299/6881
FIGURE 1209

ACCGCGGGGCTGGGTCCCAGCCGGCAGCAGAGAGCTGGTCGCCCACCACCCCAAGCTACTGCTGCCGCTGGCT
ATTTCCCGGCGGGGCGGTACGTGGTGGTGGCTGAGAGCCCCCTGCCGCTGGCGAGTGGGAGCTGTGCCGCGCAG
TCCCGGGCCCTGCTTACGAGGAGGAGGGCACTCCCCCTGCGCTACCAGCGTCTGGTGCCCTCTCGCAGCCGCATCG
TGCGGACGCCCTCCCTGAAGGACAGCCCGCAGGCGGGGGCTCAGCAAGGCCCGCTGTCCGAGGAGCTCAAGT
GGTGGCAGGAGCTGCACGCCTCCGGAGCACCCGCCCCCACTACTGGACCGCCAAGGAGCTTTCCGGGTGAGGA
GCCTGCCCTTGGGAGAGAGGGCTTCGGGCGAGCCCTGGGACCCCGGGCACAGGTGCCACAGTGTGTGTGCTGC
GGAGATCGCTGACGGGGCCCTGTGCAAGTCTTTGTACCTGAAAAAGGAGAGATCATCAGCCAGGTGTAACTCT
GCGCCCCACGCTGGAAAAAAGTGTTCATAGAGGGCTGGGCTGAGACCCCCCAACCCCTGAGTGCCTCTTTTCAG
CTTCCCCATCCCCATCGCAGGCCGATGACCTGGAGCTGAGACCTTTTATTATTTTTTTTTTACACGACTTTTTTC
AGAAGCCCTGACCTAAGGATTATATATGTGGATTGTCTCAATACCCCTGTGATATGATTATGTTTTATCCCCC
AGAGTTTGGCTACTGGACTTAAGGCCTTGCCTGTCTGACTGACAGCCTCTATCTCCTTATATAAGACAAGTGGC
AGGGGACGAGTGAAGCAGAGTGGGCCACCTTGGGAGTTCTCCAACACTCTGTGCTCTGGTTCTAAGAAATTCCT
GGGGAAGTCCCTGGCCCTCTGTCCACTATTGCTGGAGGCTGGACATGGTACATACTCATGCACATGACTCT
CCCCATTTCAGGTCTCTGGGTACCCAGCCTGGGCTGGGGGAGAATCTCTTCCCCCTTTCTAATGTGCTCTG
TGATGCACACACCAAGTGGTAGGTCAAAGGTCAATATCCCGGTGGTGTATTGTCTTGCTAGACCCTGCTATTT
TCCTGACCCCTAAATCCTCTTTAGGGACCCAGTCACTATACCCCTGTCTATGCCCTGTGGGCTCCAGACCCCTG
AGCTTTGAGTCAGTGGCATCACGTTTGTAGCCTCAGGGGCTCCGCTGGGGGCTGATCCATGCTTGTGGTTAGT
GGACAGCAGCCACCCCTTTGACAGCTACCTCTGGGCATCTCAAGGGCTTGACAGCCCACTGCTCCTTCTAACATTT
TGTTTGTGTTGTTTGTAGATGGAGTCTCGCTCTGTGCGCCAGGCTGGAATGCAGTAGCAAGATTTCCGGCTCACTG
CAACCCCGTCTCCCGGGTTCAAGCGAATCTCCTGCCTCAGCCTTCCGAGTAGCTGGGATTACAGGCAAGCACCA
CCATGCCTGCTAATTTTTTATTTTTTAGTAGAGATGGGGTTTCATCATGTTGGCCAGGCTGGTCTCGAACTCCTGA
CCTCAAGTGTACACCTGCCTTGGCCTTTCAAAGTGTGGGATTACAGGCATGAGCCACCGCACCTGGCCCTTCT
AACGTTTTTTTCATCATAGTCCCAAAAACCAATACTTTACAAGTGGTTTTGGAAAGGCACCACTTTTGTGGCATGT
TCTGGTTGGGAGAGGGAGTCACAGTTCCTACTCCCCCACCAGCTATGCTTCTGCTCTGAGAAGGTGGTTATTTA
TACAAACATGGACATACTCACTCCCAAGGGCTGATGAGATGCTGAATTTCTTTGGGGGCATTCAATTAATTGTCC
CAGCTGCAGCGACTGGAGCAAGTCTGGAAGCTGCCTGTGCTAAGACCACCCAGCTGTCCCTGGGTTCTCATCCTA
GGGCCTTCTTTGCTTCCAGGTGAGGGGACCTGCTTCAATGAGAAAGCAACTGAATTGAGGCTAGGAGAGGTAGGG
AGAGCTGAGTTCTGACTTCACCTGTGCAGAACTCTCTGCCCCATGTTACCTGGACTGGAACAGACTGTGAATAT
AGCAGAAGGTTCCAAGAAGTCTGGTGTCTGACCTAGAAGAGGCACAGTTCTCTCTACTGGAAAGAAAACGATGTA
GCCGATTGCACAAGGTGCCAAGGGAAGACCCAGGATGGCCCATCAAAGGAACCTGGGGGAGGATGCAGGAGGCT
GAAGGGATGCACCTGGCATTCTCTCACTGTGCTCTTACCGCATCAGCAACCCCCAACTTTTGGGCCTACTCTGC
CCCCATGCGTGAATACCCTGCTTGGATGCTGTGCTTTTCCGGTTTGTCTCTAAGCCCCCTTTCTCCAGGGCATGT
TGGTTTCCCTGGCCTCTCAGTGTCTTAAGTGGAGCCAGAGTGCCTTGTACTGAGCCAGGAGACGGCTGAGCACT
GGCCCTCCACACCTAAGCGTCCTTTACATTAAGTATTGGTCTGTATAACCTGGTGCCATTGCCAAGTGGCT
GTGTCTCAGCTACAGAGCTGGAATTGTGTGGGGTTTAGTGCTAAATACTTCAATAAAGTCTGTTTTTTGTGATT
GGCTG

1300/6881

FIGURE 1210

MFWLGEGVTVPTPPTSASYASALRRWLFIQWTYSLPRADEMLNFLWGHSLIVPAAATGASLEAACAKTTQLSLGSH
PRAFFASRSGDLLQ

1301/6881
FIGURE 1211

ATGAACTCTTCTACGAATGTGGGAATGCAAAAAGGAATTGAAGGAAGGGAAAAAACTGAAGCCTGGAAAAACAT
ATTAATCCCAGTGCTTTTACGCCCCGAAACAAAGAGACTAAGCCAGACTATGGGGGAAAGGGAGATAAGAAGGAT
CCTGGAACTTTAAAGAGGGGAAAGAGTGAGATTGAGAAATCGCCAGGACTGGACTTTAAGGGACGTCCTGTGTGACG
CACAAGGGACTGGCACACACAGACACACGAGACCGAGGAGAAACTGCAGACAAATGGAGATACAAAGACTTAGAA
GGACAGCTCCTTTACCTCATCTACTTGTCCAGAAGTGTGTGGATCAGAACCCACCCCATGCCACTATTAGA
GGCAGCCACGGAGGACGGAAAGTGCTTTGGTTTCTCCGACAGCAGTAGGCCAGCTCGGTTTCTGAGGCACACT
GGGAGGTCTCGCGAATTGAGAGATCCACTCTGGAGGAACCAACCTTCAGCCTCTCCAGAGAAGGAGGAGTGTG
CCCGTGTGAGACTAGCTCGCCCAACAGAGCCGCCAGCCGCTCGGACATCAATGGGGCCCGCGTGAGACCTGAG
CAAAGACCAGCAGCCAGGGGCTCTCCGCGTGAGATGATCAGAGATGAGGGGTCTCAGCTCGGTCAAGATGTTG
CGTTTCCCTTCGGGGTCCAGCTCTCCCAACATCCTTGCCAGCTTTGAGGGGAAGAACAGAGTATGGGTGATCTCA
GCCCCCTCATGCTCGGAAGGCTACTACCGCCTCATGATGAGCCTGCTGAAGGACGATGTGTACTGTGAGCTGGCG
GAGAGGCACATCCAACAGATTGTGCTCTTCCACCAGGCAGGTGAGGAAGGAGGCAAGGTGAGAAGGATCACCAGC
GAGGGCCAGATCCTGGAGCAGCCCTGGACCCTAGCCTCATCCCTAAGCTGATGAGCTTCTGAAGCTGGAGAAG
GGCAAGTTTGGCATGGTGCTGCTGAAGAAGACGCTGCAGGTGGAGGAGCGCTATCCATATCCCGTTAGGCTGGAA
GCCATGTACGAGGTGATCGACCAAGGCCCATCCGTAGGATCGAGAAGATCAGGCAGAAGGGCTTTGTCCAGAAA
TGTAAGGCCTCTGGTGATAGAGGGCCAGGTGGTGGCGAGGGGAATGACGGTGAGGGGGAGCAGGAAGGCCAAGC
CTGGGCAGCGAGAAGAAGAAAGAGGACCCAAGGAGAGCACAAGTCCCACCAACCAGAGAGAGTCGGGTGAAGGTC
CTGAGAAAACCTGGCCGCCACTGCACCAGCTTTGCCCAACCTCCCTCAACCCCAAGAGCCACCACCCTTCCTCCT
GCCCCAGCCACAACAGTGACTCGGTCCACGTCCCGGGCGGTAACAGTTGCTGCAAGACCTATGACCACCCTGCC
TTTCCCACCACGAGAGGCCCTGGACCCCTCACCCTCCACAGGCCCCCTACAACCACTGAGGTGATCACTGCC
AGGAGACCCTCAGTTTCAAGAAATCTTTACCCTCCATCCCGGAAGGATCAGCACAGGGAGAGGCCACAGACAACC
AGGAGGGCCAGCAAGGCCACCAGCTTGGAGAGCTTCAAAATGCCCTCCCAACCACCTCTCAGAACCAGCACA
AGGGCTGCTGGCCAGGCCGTTTCCGGGACAACCGCATGGACAGGCGGGAACATGGCCACCAGACCCAAATGTG
GTGCCAGGTCTCCCAAGCCAGCAAGGAGAAACCTCCCAAAAAGAAGGCCAGGACAAAATCTTAGTAATGAG
TATGAGGAGAAGTATGACCTCAGCCGGCCTACTGCCTCTCAGCTGGAGGACGAGCTGCAGAGTCCCAAGAAGTCA
GTGGCCGACCTGCTGGGGTCTTTGAAGGCAACGAAGACTCCTTCTGATCACTGCTCCCAAGGCTGAGAACAAT
ATGATATGTGCAACAACGTGATGAATATCTGGAAAGTTTCTGCAAGATGGCTACCAGGAAAATCTCTGTGATCACC
ATCTTCGGCCCTGTCAACAACAGCACCATGAAAATCGACCACTTTCAGCTAGATAATGAGAAGCCCATGCGAGTG
GTGGATGATGAAGACTTGGTAGACCAGCGTCTCATCAGCGAGCTGAGGAAAGAGTACGGAATGACCTACAATGAC
TTCTTCATGGTGCTAACAGATGTGGATCTGAGAGTCAAGCAATACTATGAGGTACCAATAACAATGAAGTCTGTG
TTTGATCTGATCGATACTTTCCAGTCCCGAATCAAAGATATGGAGAAGCAGAAGAAGGAGGGCATTGTTTGCAAA
GAGGACAAAAGCAGTCCCTGGAGAACTTCTATCCAGGTTCCGGTGGAGGAGGAGGTTGCTGGTGATCTGCTGCT
CCTAACGATGAAGACTGGGCCTATTACAGCAGCTCTCTGCCCTCAGTGGTCAGGCGTGCAATTTTGGTCTGCCG
CACATAACCATTCTGAAGCTTTTAGGCGTTGGAGAGGAAGTTGGGGGAGTGTTAGAACTGTTCCCAATTAATGGG
AGCTCTGTTGTTGAGCGAGAAGACGTACCAGCCCATTGGTGAAAGACATTCGTAACCTATTTTCAAGTGAGCCCG
GAGTACTTCTCCATGCTTCTAGTCGGAAAAGACGGAAATGTCAAATCCTGGTATCCTTCCCAATGTGGTCCATG
GTGATTGTGTACGATTTAATTGATTCGATGCAACTTCGGAGACAGGAAATGGCGATTACGAGTCACTGGGGATG
CGCTGCCCAGAAGATGAGTATGCAGGCTATGGTTACCATAGTTACCACCAAGGATACCAGGATGGTTACCAGGAT
GACTACCGTCATCATGAGAGTTATCACCATGGATACCCTTACTGA

1302/6881
FIGURE 1212

MTWRMGPRFTMLLAMWLVCGSEPHPHATIRGSHGGRKVPLVSPDSSRPARFLRHTGRSRGIERSTLEEPNLQPLQ
RRRSVPVLRRLARPTEPPARSDINGAAVRPEQRPAARGSPREMIRDEGSSARSRLRFPSSSSPNILASFAGKNR
VWVISAPHASEGYRLMMSLLKDDVYCELAERHIQQIVLFHQAGEEGGKVRITSEGQILEQPLDPSLIPKLMSF
LKLEKGFVLLKKTLLQVEERYPPVRLEAMYVIDQGPRIIRIEKIRQKGFVQCKASGVEGQVVAEGNDGGGG
AGRPSLGSEKKKEDPRRAQVPPTRSRVKVLRKLAATAPALPQPPSTPRATTLPPAPATTVTRSTSRAVTVAARP
MTTAFPTTQRPWTPSPSHRPPTTEVITARRPSVSENYPPSRKDQHRERPQTTRRPSKATSLESFTNAPPTTI
SEPSTRAAGPGRFRDNRMDRREHGHDPNVVPGPPKPAKEKPPKKAQDKILSNEYEEKYDLSRPTASQLEDELQ
VGNVPLKKAKESKKHEKLEKPEKEKKKKMKNNENADKLLKSEKQMKKSEKKSKEKEKSKKKKGKTEQDGYQKPT
NKHFTQSPKKSADLLGSFEGKRRLLLITAPKAENMYVQQRDEYLESFCKMATRKISVITIFGPVNNSTMKIDH
FQLDNEKPMRVVDDDLVDQRLISELRKEYGMTYNDFMVLTDVLDLRVKQYYEVPITMKSVDLIDTFQSRIKDM
EKQKKEGIVCKEDKKQSLENFLSRFRWRRRLLVISAPNDEDWAYSQQLSALSGQACNFGLRHITILKLLGVGEEV
GGVLELFPINGSSVVEREDVPAHLVKDIRNYFQVSPEYFSMLLVGKDGNVKSWYSPMWSMVIVYDLIDSMQLRR
QEMAIQQSLGMRCPEDEYAGYGYHSYHQGYQDGYQDDYRHESYHHGYPY

1303/6881
FIGURE 1213

TTCTGGGAAGGGAGAATGGCGGCGCCCGGGCTGCGGCTGGGAGCGGGAAGACTCTTTGAAATGCGGTGCTA
GAGCGACTGAGCCGCTATAATAGCACGTCCCAAGCTTTTGCTGAGGTGCTGCGGCTGCCGAAGCAGCAGCTGAGG
AAGCTGCTGTACCCGCTGCAGGAAGTAGAGCGGTTCTTCGCCCCCTACGGGAGGCAAGACCTTCACCTGCGTATC
TTTGACCCAAGCCCGGAGGACATAGCCAGGGCGGACAACATCTTCACGGCCACTGAACGGAACCGCATCGACTAC
GTCAGCTCCGCGCTCCGTATCGACCAGCCCCGGACCTTCGCGGCCAGAGGTGTGTTTATAGGCAGAAGCAAT
GTTGGAAAATCATCTCTAATCAAGGCTTTATTTTCACTGGCCCCCTGAGGTTGAAGTCAGAGTCTCCAAAAACCA
GGACACACAAAGAAAATGAATTTTTCAAAGTTGGAAAACATTTTACAGTGGTGGACATGCCAGGTTATGGCTTT
AGAGCACCTGAAGATTTTGTGACATGGTAGAGACCTATCTAAAGAACGAAGGAACCTGAAGAGAACATTTTAA
TTAGTGGATAGCGTTGTTGGAATCAAAAAACAGACAATATTGCCATAGAAATGTGTGAAGAATTTGCATTACCT
TATGTGATTGTATTAACAAAAATTGACAAATCTTCCAAGGGACATCTTTTAAACAAGTGCTTCAGATCCAGAAA
TTTGTTAACATGAAAACCTCAAGGATGTTTTCTCAGTTGTTTCCGTGAAGTGCTGTGACCTTTTCTGGAATCCAC
CTGTTGAGATGCTTTATAGCCAGTGTACAGGAAGTCTTGACTAATGGTTCCCGGTTTAGCTGAAGATTCAAAAA
AAAAAAAAAAAAAGCTTTATGCTAACTGGAGTTAAATACCTAGAAGAATTTCAACATTGTTTTAAATGTTGTGCATC
TGTAACCTCAGGAGGATCACTTGAGCTTTAAACCTGTGCCCTTCTCGAAACAAGAATTTGTGCCTGAGGTGAAAA
AAGTTTGTAAGTTATTGAATTATGGTGTTCATTAGAACAGCTACTAGCTGATTCCCCTATTTTAAACAACTGACA
AGAGCACATCCATAAAATGAAAACCTGTTACAACATATGTACAGAAGGGTTTGACGTTTTATTGGGCTTTTGTCTT
TTAAAGAATATGTCTACTATGGGTATTTTTTTTTTAAATGTTAAATGGGCTAGGTAAAAGGGGGCTGCTTTTCT
GTTAAGCATCGATAGGTAAGTTGATGGATAAAAGTTACTATGTAAGCCTATTTTTTTGAGTCCTTATTGAAATAT
TGAAAACATTCTTGATAAAATGTGTTAGTCCATGTTGGAAACAACCGAAAGAACAGAATTCAGTTCTAGTTCTG
ATGTTTATTATATATGTTGGATCTTGGGCAACTTACTTGATTTCTCGGAAATTCATTTGTTACTGTAAACGTGAA
AGCTATTAAGATTCAAATGAATGGTTTTACAGCAGGTAACATGTGAGAAGACAGCTACATATTGTAAAGCCAAA
CCAACAAAGAAATATAGCAAAATTCACAGGTAGATTTATTACAAGAAATGTCCTTTTCATGGGGGAAGTAACATTT
TCACTAGTGAAAAAGCAAAAAACAAAAATAGCTTTAAGTGAGAAAACATAATT

FIGURE 1214

TGGAGAGGAACAAGCTAGCTATGTTGTGACTGGTGTCTTCTGGCTAAATGGAACACTTAATGCATCCATCTCTAA
AGCCTTTTATAATGAAAATTTGGTTTAAAGAAGGAGTTTCAGCAGCTTTTGCTGTGAAGCTCTTTAAATCATGGATA
AATGAAAAAGATATCAATGCAGTAGCTGCAAGTCTTCGGAAGTGCAGCATGGATAACAGACTGATGGAACCTTT
CCTGCCAATAAGCAAAGTGTTGAACACTTCACAAAATATTTTACTGAGGCAGGCTTGAAAGAGCTTTTCAAGATAT
GTTTCGGAATCAGCAAACCATCGGAGCTCGTAAGGAGCTCCAGAAAGAACTTCAAGAACAGATGTCCCGTGGTGAT
CCATTTAAGGATATAATTTTATATGTCAAGGAGGAGATGAAAAAACAACATCCCAGAGCCAGTTGTCTATCGGA
ATAGTCTGGTCAAGTGTAATGAGCACTGTGGAATGGAACAAAAAGAGGAGCTTGTAGCAGAGCAAGCCATCAAG
CACTTGAAGCAATACAGCCCTCTACTTGCTGCCTTTACTACTCAAGGTGAGTCTGAGCTGACTCTGTTACTGAAG
ATTCAAGGAGTATTGCTATGACAACATTCAATTCATGAAAGCCTTCCAGAAAATAGTGGTGCTTTTTTTATAAAGCT
GAAGTCCTGAGCGAGGAGGCCATTTTGAAGTGGTATAAAGATGCACATGTTGCAAAGGGGAAGAGTGTTTTCCCT
GAGCAAATGAAAAAGTTTGTAGAATGGCTCAAAAATGCTGAAGAAGAATCTGAATCTGAAGCTGAAGAAGGTGAC
TGAATTTTGAACACTACCCCTCAGTAAAGCAAACAGGAGTTGTAGATAAAATGTCATGTCTCATGTGCTCGGT
CTTACATCTTCTACCTCCCTGTATCAAGCATGATATAAGGGCTTTTCATGGCAAATTTTATTTTAACTGTTTCTA
TGGTTGCTGGAATGTTGGGTTTAGTTTCTAAAACCATGTTTTAAGTAGCTACAGGAGCTATAGATTTGAATCTA
ATGTTGCATTAGTCTTTTCAGTTATCTTCTACCTCCTGTATTTTCTACTGTAATAATGTAATTTAAGGCCTTCCA
CAATGAACAGTTCACTTTATTCCCTGGGTTTTCTATAAACAGTTTTAAGGATATGATTTGGTTAAAAAATAATTT
GTTATAAAAATTCTGTTTGCAAATTAAGCTGGAAGATCCAGAGTCTCAAAAGGCAATGATTTGTGAGATAAT
ATGGCATGCCCCGAGCCCTGCTCATCAATGAAAAACCCATATGTAATAATCGAATTCATTTAACATGAATCTTGA
GTACGTGGACCATTGCTTGCAATGTTAACTTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGCATTTTTAACTCCAGA
TATCCTAAAGCTCAATTGTTTGGTCTCTGGTTTTTCATCCTTAGAGAAGCCATGGAGAACAGACTTGAAAAGTTTA
GGAAATCATAATGTGGCAGAGGTGGTGGGAAGAAGAAAGTTGAGCTTTTTCCCTTGAGAACTTCTGCATTTAG
TTTGTATCTTTCCAGGCAAAACAAATGGGTATTCTTTTCATACAACCATTTTCAAATGAACTTAGAAAAGTCTT
AACATTTAAGGTATTTTATGCACAGAATACACTTAGATTGATAGGAAAGAACTCGTAATGGAGTTTGAGTAAAGA
AAATGACTGATGTACTAAACCCAGTAAAAATTGTTGAAAATGTTAAAGGTGAGCATGTTTCTAATTGGGAATCTAG
ATATAGCTTAGATTTCCATTGGCTTAGAGTATTGCTATAACAAATGAAGTGCAATGACAATTATATATTCCTA
CTCGGTCATACTGGACTGGCTTCGTTCTCTTAACATACTCAGTAATGACTCAAGCCTCTGGCTATTAACATACCC
TAGTTGCCATTTTTTAAATGCCATGAGCCAAATACCTTCTGGTATACAATTGATCCATTTATTTTAAATGGCTGCC
TTTTCATTTTCATCTTTTCTTGCTGCTACCACTATGATGTAGTCAATGGGGGAAAATGTAGCCACATTTTT
TATGGGAAGACTTTGTGTTTAAAGTGAACATTTTGAAGTTTTTAACTGGTGAAACTAGCCTGGAATAATGCCAC
CAGAGACTGAGTGGAAATCGCCCTTTTGAAGGTGCCATTCTATGAGCCAAAAGTTTGTCAATTTAAAGTTTCA
TTTGCGGGAATAACATGTAATATAATTTGAAATAAAGGTATAGTAACCTTAAAAAGAACATTATACTGATTGTT
GTGAATGGGGTGAATTTGTTAAATGAGTAACCTTGATAAAGTTTTTCATGCACAGGCAAAATGTATTCACCTAGA
TTTCTACGTAGTGATCTGCTTTTACTTTGTAATTTGTAGTTCTCAAAAGACTTTTTTTTAAAAAATAAAGTCCA
TACTTACACTT

1305/6881
FIGURE 1215

MLTGVLLANGTLNASILNSLYNENLVKEGVSAFAVKLFKSWINEKDINAVAASLRKVSMDNRLMELFPANKQSV
EHFTKYFTEAGLKELSEYVRNQQTIGARKELQKELQEOMSRGDPFKDIILYVKEEMKKNNIPEPVVIGIVWSSVM
STVEWNKKEELVAEQAIKHLKQYSPLLAFTTQGQSELTLLLKIQEYCYDNIHFMKAFQKIVVLFYKAEVLSEEP
ILKWYKDAHVAKGKSVFLEQMKKFVEWLKNAEESESEAEEGD

1306/6881

FIGURE 1216A

GGCACGAGGGATCGGCGGAGCTCCACCTCCGCTTACAGCTCGCTGCCGCCGTCCTGCCCCGCGCCCCAGGAGA
CCTGGACCAGACCACGATGTGGAAACGCTGGCTCGCGCTCGCGCTCGCGCTGGTGGCGGTGCGCTGGGTCCGCGC
CGAGGAAGAGCTAAGGAGCAAATCCAAGATCTGTGCCAATGTGTTTTGTGGAGCCGGCCGGGAATGTGCAGTCAC
AGAGAAAGGGGAACCCACCTGTCTCTGCATTGAGCAATGCAAACCTCACAAGAGGCCTGTGTGTGGCAGTAATGG
CAAGACCTACCTCAACCACTGTGAAGTGCATCGAGATGCCTGCCTCACTGGATCCAAAATCCAGGTTGATTACGA
TGGACACTGCAAAGAGAAGAAATCCGTAAGTCCATCTGCCAGCCCAGTTGTTTGCTATCAGTCCAAACCGTGATGA
GCTCCGACGTGCGCATCATCCAGTGGCTGGAAGCTGAGATCATTCCAGATGGCTGGTTCTCTAAAGGCAGCAACTA
CAGTGAAATCCTAGACAAGTATTTAAGAATTTGATAATGGTGATTCTCGCCTGGACTCCAGTGAATTCCTGAA
GTTTGTGGAAACAGAATGAACTGCCATCAATATTACAACGTATCCAGACCAGGAGAACAACAAGTTGCTTAGGGG
ACTCTGTGTGATGCTCTCATTGAAGTGTCTGATGAAAATGCTGATTGGAACTCAGCTTCCAAGAGTTTCTCAA
GTGCCTCAACCCATCTTTCAACCTCCTGAGAAGAAGTGTGCCCTGGAGGATGAAACGTATGCAGATGGAGCTGA
GACCGAGGTGGACTGTAACCGCTGTGTCTGTGCCCTGTGGAAATGGGTCTGTACAGCCATGACCTGTGACGGAAA
GAATCAGAAGGGGGCCAGACCCAGACAGAGGAGGAGATGACCAGATATGTCCAGGAGCTCCAAAAGCATCAGGA
AACAGCTGAAAAGACCAAGAGAGTGAGCACCAAAGAGATCTAATGAGGAGGCACAGACCAGTGTCTGGATCCCAG
CATCTTCTCCACTTCAGCGCTGAGTTCAGTATACACAAGTGTCTGTCTACAGTCGCCAAATCACCAGTATTGCTT
ATATAGCAATGAGTTTTATTTTGTATTTGTTTTGCAATAAAGGATATGAAGGTGGCTGGCTAGGAAGGGAAGG
GCCACAGCCTTCATTTCTAGGAGTGCTTTAAGAGAACTGTAAATGGTGTCTGCGGCTGGAGGCTAGTAAGGAA
ACTGCATCAGGATTGAAAGAGGAACAGACCCAAATCTGAACCTCTTTGAGTTTACTGCATCTGTCTCAGCAGGCTG
CAGGGAGTGCACAGATGCCAGAGAGAACTTAGCAGGGTGTCCCGGAGGAGAGGTTTGGGAAGCTCCACGGAGA
GGAACGCTCTCTGCTTCCAGCCTCTTTCCATTGCCGTGAGCATGACAGACCTCCAGCATCCACGCATCTCTTGTT
CCCAATAACTGCCTCTAGATACATAGCCATACTGTAGTTAACCAGTGTCCCTCAGACTTGGATGGAGTTTCTG
GGAGGGTACACCCAAATGATGCAGATACTTGTATACTTTGAGCCCTTAGCGACCTAACCAATTTTAAAAATAC
TTTTTACCAAAGGTGCTATTTCTCTGTAAACACTTTTTTTTTGGCAAGTTGACTTTATCTTCAATTATTATCA
TTATATTATTGTTTTTAAATATTTTATTTCTTGACTAGGTATTAAGCTTTTGTAAATTATTTTCAAGTATCCCA
CCACTTCATAGGTGGAAGGAGTTTGGGGTCTTCTGGTGCAGGGGCTGAAATAACCCAGATGCCCCACCCTGC
CACATACTAGATGCAGCCCATAGTTGGCCCCCTAGCTTCCAGCAGTCCACTATCTGCCAGAGGAGCAAGGGTGC
CTTAGACCGAAGCCAGGGGAAGAAGCATCTTCATAAAAACTTTCAAGATCCAAACATTAATTTGTTTTATTTA
TTCTGAGAAGTTGAGGCAAATCAGTATTTCCCAAGGATGGCGACAAGGGCAGCCAAGCAGGGCTTAGGATATCCCA
GCTTACCAATATGCTCATTGACTAAGTAGGAGGTGAGTTGGCCCTGTCTCTTTTCTGACCTCAGTTT
CCTCAGTGAGCTGGTAAGAATGCACTAACCTTTTGATTGATAAGTTATAAATCTGTGGTTCTGATCATTTGGTC
CAGAGGGGAGATAGGTTCTGTGATTTTCTTCTCTATAGAATAAATGAAATCTTGTACTAGAACAAGAA
ATGTCAGATGGCCAAAAACAAGATGACCAGATTGATCTCAGCCTGATGACCCTACAGGTCGTGCTATGATATGG
AGTCCTCATGGGTAAAGCAGGAAGAGAGTGGGAAAGAGAACCACCCACTCTGTCTTCATATTGCAATTTATGT
TTAACCTCCGGCTGGAAATAGAAAGCATTCCCTTAGAGATGAGGATAAAAGAAAGTTTCAGATTCAACAGGGGGA
AGAAAATGGAGATTTAATCCTAAACTGTGACTTGGGGAGGTGAGTCATTACAGTTAGTCTGTGTCTTTTCGAC
TTCTGTGATTATTAACCCCACTCACTACCTGTTTCAGATGCATTGGAATACCAAAGATTAAATCCTTGACATA
AGATCTCATTGTCAGAAAGCAGATTAAAGACCATCAGAAGGAAATATTAGGTTGTAATGCACAGGCAACTGTG
AGAACTGTTGTGCCAAAAATAGAATTCCTTCTAGTTTTCTTGTCTCATTGAAAGGAGAAAATCCACTTTG
TTTAGCATTTCAGCTTTTATGTATCCATCCCATCTAAAACTCTTCAAACCTCCACTTGTTCAGTCTGAAATGCA
GCTCCCTGTCCAAGTGCTTGGAGAACTCACAGCAGCAGCCTTAATCAAAGGTTTTACCAGCCCTTGGACACTA
TGGGAGGAGGGCAAGAGTACACCAATTTGTTAAAAGCAAGAAACACAGTGTCTTCACTAGTCATTTAGAACA
TGGTTATCATCCAAGACTACTCTACCCTGCAACATTGAACCTCCCAAGAGCAAATCCACATTCTCTTGAGTTCTG
CAGCTTCTGTGTAAATAGGGCAGCTGTCTGTATGCCGTGAATATCACATGATCTGAGGACCATTTCATGGAAGCTG
CTAAATAGCCTAGTCTGGGAGTCTTCCATAAAGTTTTGCTAGTGGAGCAAACAAACAGGATTAACTAGGTTTGGT
TCCTTCAGCCCTCTAAAGCATAGGGCTTAGCCTGCAGGCTTCTTGGGCTTTCTCTGTGTGTGTAGTTTGTAA
ACACTATAGCATCTGTTAAGATCCAGTGTCCATGGAAACATTCCACATGCCGTGACTCTGGACTATATCAGTTT
TTGGAAAGCAGGGTTCTCTGCTGCTAACAAGCCCACGTGGACCAGTCTGAATGTCTTCTTTACACCTATGT
TTTTAAGTAGTCAAACCTCAAGAAACAATCTAAACAAGTTTCTGTTGCATATGTGTTTGTGAACCTGTATTGTGA

1307/6881
FIGURE 1216B

TTTAGTAGGCTTCTATATTGCATTAACTTGTTTTGTAACTCCTGATTCTTCCTTTTCGGATACTATTGATGAA
TAAAGAAATTAAAGTGAIAAAAAAAAAAAAAAAAAAAAAA

1308/6881
FIGURE 1217

MWKRWLALALVAVAWVRAEEELRSKSKICANVFCGAGRECAVTEKGEPTCLCIEQCKPHKRPVCGSNGKTYLN
HCELHRDACLITGSKIQVDYDGHCKEKKSVSPSASPVVQYQSNRDELRRRIIQWLEAEIIPDGWFSKGSNYSEILD
KYFKNFDNGDSRLDSSEFLKFVEQNETAINITTYPDQENNKLLRGLCVDALIELSDENADWKLSEFLKCLNPS
FNPPEKKCALEDETYADGAETEVDNRCVCACGNWVCTAMTCDGKNQKGAQTQTEEMTRYVQELQKHQETAECT
KRVSTKEI

1309/6881
FIGURE 1218

CTCCCAAGATGTCGTTCCCAAAGTATAAGCCGTCGAGCCTGCGCACTCTGCCTGAGACCCTCGACCCAGCCGAAT
ACAACATATCTCCGGAAACCCGGCGGGCGCAAGCCGAGCGGTTGGCCATAAGAGCCCAGCTGAAACGAGAGTACC
TGCTTCAGTACAACGATCCCAACCGCCGAGGGCTCATCGAAAATCCTGCCTTGCTTCGTTGGGCCTATGCAAGAA
CAATAAATGTCTATCCTAATTCAGACCCACTCCTAAAACTCACTCATGGGAGCTCTGTGTGGATTGGGCCCC
TCATCTTCATTTATTATATTATCAAACTGAGAGGGATAGGAAAGAAAACTTATCCAGGAAGGAAAATTGGATC
GAACATTCACCTCTCATATTAAGTCTGGCAATGATGACTATATGTATTCCTGCCTAAATAAATCATCTATTAAT
CATTAAAAA

1310/6881
FIGURE 1219

MSFPKYKPSSLRTLPELDPAEYNISPETRRQAERLAIRAQLKREYLLQYNDPNRRGLIENPALLRWAYARTIN
VYPNFRPTPKNSLMGALCGFGPLIFIYYIIKTERDRKEKLIQEGKLDRTFHLSY

1311/6881
FIGURE 1220

GATGACACACAATAATTTTTGGTTGAAGAAGATAGAAATCAGTGTTCAGAAGCAGAAAAACGAACTGGAAGAAA
TGCCATGAACATGCAAGAAACATATACTGCTTACCTCATTGAAACAAGGTCAGTTGAACATACCGATGGTCAGAG
TGTCTAACAGACTCACTATGGCGGCGATATAGTGAATTTGAGTTGTTGAGAAGCTACCTTTTAGTTTACTATCC
ACATATTGTTGTGCCACCTCTGCCAGAAAAACGGGCAGAAATTTGTTTGGCATAAACTCTCTGCTGACAACATGGA
TCCAGATTTTGTGGAGAGGCGACGGATTGGTTTAGAAAACCTTTCTCTTGAGGATTGCTTCACATCCCATCCTTTG
TAGAGACAAAATCTTCTATCTGTTTTTAACACAGGAAGGTAACCTGGAAGGAGACTGTGAATGAACTGGGTTTCA
GCTGAAGGCAGACTCCAGGTTAAAAGCGCTTAATGCAACATTCAGAGTGAAAAACCCAGACAAGAGATTTACTGA
CCTTAAGCACTATAGTGATGAAGTGCAGTCTGTCATCTCACATCTTCTTCGAGTCAGAGCTAGAGTAGCAGATCG
ACTCTATGGTGTATATAAAGTACATGGGAATTATGGTCGAGTTTTTCAGTGAATGGAGTGCCATAGAAAAAGAAAT
GGGTGATGGACTGCAGAGTGCTGGTCATCATATGGATGTGTATGCATCTTCTATTGATGATATTTTGGAGATGA
AGAACATTATGCAGATCAGTTAAAAGAGTATCTTTTTATGCAGAAGCATTGCGGGCTGTGTGCAGGAACATGA
ACTTATGCAGTATGACTTGGAGATGGCTGCTCAGGACTTAGCATCCAAGAAGCAGCAGTGTGAGGAACGGTAAC
TGGGACTGTGAGAACATTCTCTTTGAAGGGAATGACTACCAAGCTCTTTGGTCAAGAACTCCAGAGCAGAGAGA
AGCCAGAATAAAGGTGCTAGAAGAACAATAAATGAAGGAGAACAACAGCTAAAGTCTAAAAATCTGGAAGGCAG
AGAATTTGTGAAAAACGCATGGGCTGATATTGAACGCTTCAAAGAACAAAAGAACCAGACTTAAAGGAGGCCCT
CATAAGCTATGCAGTCATGCAGATCAGTATGTGCAAAAAGAGTCTCACCCTGTCACCCAGGCTGGAGTGCAATGG
CATGATCTCAGCTCACTACAACCTCCGCCTCCCGTGTTCAGCAATTCTACCTCATCCAGCCAGTAGATGGGAT
TACAGGGAATTCAAGTTTGGACCAATGCTAAGGAATGCTTTAGCAAGATGTAATCCTGTGAATTGAATTTCTCTT
CAATCAAAGTGCCCCAAAACAGAAGCACAAGTAAATAAAAGAAATTTAAGTCACTACCTAGTATACATAAACATA
TACAATAAGTTAAATAAATTCAGCTTTCTTTAACTTAATTTGTGGTCTGTTAATGTAGCACAAAAAATATATTTT
AATGAAGATTAAATAATATAATTTGAGGTTTTGGGGACTGGTGTGCTGATTCCAAAAAGTTAATTTAATAATATATA
CCAACAGATTGTTTGTACAGCTTCTGAACCAATGACTGAATGTCAAGATGTTGTTAATTTCTAGATGTTTGTGT
CAAGACCAGCTGTTTCAAGTCTATTAATGTAGGGAATTTTCCCTAAGATTGAATTCCTATATTTACTTGGTAAAG
ATCCACTAATCTGTTATAGGGAGTTGTTTTCTCTTGCCCTTAGATTGAGCTATTTGGTTTGACAAAGCTCAGCAG
AACTTGATGTGAAAAATCTACGATTTTCTTCTACATTCAATGATGCCCTTGTAATGTTTGATACACTAGAAA
ATGCCTTCAATTTGTGTTTTACCAGAATTTTGATACTGGTCAGAAATTTTATACTGCCAACAAAGAAGACTCAAC
TTCTCAGATCTATAATGGGATACATTGTCATCCTCTAGCAACTCCTATATAGAAAGTTTTAACTGAATATGTTAC
ATATAAGAATTAATTTCTTCTCAAATAATTCTTAACCTCAGTAATGAGCCTAAATTTACTCTGCTTGGCTCTCTA
CACATGGCATTTCAGGGTATAAGATGTAGCATTTCAATGTGTAAGATATATGTACTAAACATATGTGTTGCTATC
TTCATCATTAACATCCTTCTTTTCTATTGCTTGGCTGTAAATTTTGTAAAGATAAATTATATTGTTTTTTGTAT
GTGTGTTTGTAGTATATGTTTCAAGGCAAGCATCTTCATTTGCTAGCTTTGCAGAATCTTAAATGTGTACTC
GTTATTTCTAATGATGTAAAAAAAATCCCTAGTCTGTTTAGCATTTGACTTTTTTATATGTTTTAAATGTTTG
TGGATTTTTGTGCTGTTTGCCAACTTATACAATAAATAAATGAAATATTGTGCTG

1312/6881
FIGURE 1221A

GCAATTTTAGAATGTGCTGGACAAAATGTAGAAAGGGAATGTTCTCAGCAAGCTCAGCAGCGCAAAAATGATTAT
ATAATCACCGGAGGTGGATTTTTGAGGTGCAAGAATATCATTCATGTAATTGGTGGAATGATGTCAAGAGTTCA
GTTTCCTCTGTTTTGCAGGAGTGTGAAAAAAAATTACTCATCCATTTGCCTCCAGCCATTGGGACAGGAAAT
GCCAAACAACCCAGATAAGGTTGCTGAAGCCATAATTGATGCCATTGAAGACTTTGTCCAGAAAGGATCAGCC
CAGTCTGTGAAAAAGTTAAAGTTGTTATCTTTCTGCCTCAAGTACTGGATGTGTTTTATGCCAACATGAAGAAA
AGAGAAGGGACTCAGCTTTCTTCCCAACAGTCTGTGATGTCTAAACTTGCATCATTTTTGGGCTTTTCAAAGCAA
TCTCCCCAAAAAAGAATCATTTGGTTTTGGAAAAGAAAACAGAATCAGCAACTTTTTCGGGTGTGTGGTGAAAAT
GTCACGTGTGTGGAATATGCTATCTCCTGGCTACAAGACCTGATTGAAAAAGAACAGTGTCTTACACCAGTGAA
GATGAGTGCATCAAAGACTTTGATGAAAAGGAGTATCAGGAGTTGAATGAGCTGCAGAAGAAGTTAAATATTAAC
ATTTCCCTGGACCATAAGAGACCTTTGATTAAGGTTTTGGGAATTAGCAGAGATGTGATGCAGGCTAGAGATGAA
ATGAGGCGATGATCAAGAGAGGTTTCGATTGGGCAAAGAACAGGAATCCCGGGCAGATTGTATCAGTGAGTTTATA
GAATGGCAGTATAATCGACAATAACACTTCTCATGTGTTTTAACAAAATGACCAATCTGAAATTAGAGGATGCAA
GGAGAGAAAAAGAAAAAACAGTTGATGTCAAATTAATCATCGGCACTACACAGTGAAGTTGAACACATACACTG
CCACAGACACAAAGGGCCACAGTTTATCTGTTACAGCGCTCACGAAATCCAAAGTTGACATCCCTGCACACTGGA
GTGATATGAAGCAGCAGAATTTCTGTGTGGTGGAGCTGCTGCCTAGTGATCCTGAGTACAACACGGTGGCAAGCA
AGTTTAATCAGACCTGCTCACACTTCAGAATAGAGAAGATTGAGAGGATCCAGAATCCAGATCTCTGGAATAGCT
ACCAGGCAAAGAAAAAACTATGGATGCCAAGAATGGCCAGACAATGAATGAGAAGCAACTCTTCCATGGGACAG
ATGCCGGCTCCGTGCCACACGTCAATCGAAATGGCTTTAACCGCAGCTATGCCGGAAGAATGCTGTGGCATATG
GAAAGGGAACCTATTTTGTGTCAATGCCAATTATTCTGCCAATGATACGTACTCCAGACCAGATGCAAAATGGGA
GAAAGCATGTGTATTATGTGCGAGTACTTACTGGAATCTATACACATGGAAATCATTCAATTAATTGTGCTCCTT
CAAAGAACCCTCAAATCCTACTGACCTGTATGACACTGTACAGATAATGTGCACCATCCAAGTTTATTGTGG
CATTTTATGACTACCAAGCATACCCAGAGTACCTTATTACGTTTAGAAAAATAACACTTTGGTATCCTTCCACAA
AATTATTCTCCATTTGTACATATCTAGTTGTAAACAAGTTTTAGCTTTTTTTTTTAATTCCTCTTAACAGATTT
TTCTAATATCCAAGGATCATTCTTTGTGCTGAAGTCAGTCTTTCTTCAGCTTCCCTTCATAATGGAATGAAC
TTATTATCTTGAGAGCAAATAACTTGGAAAATTTAAATGAGATAATGCAGTTGCAACTGTGTGTCCACAAGTATG
GACATCAAATCTGTGGGAAAAGAAGAGGTTTGTATTTTCAGGAAGGAGAGAATAACAGTCTTATAGACAGAGGGC
ACAGCTAAGCACAGCTGCCACTGCAGGAGACAGGCCCATGTGAGGATGCCATAGTGTGTGGGAGCACAGTAT
TACCCAGTGGGTAGGGCTTCTGTCTTCCCTGGGAGCAGGGATGGTATCTTAGTCAATTTTTTCCCTTGAGATGA
GGTCTGTGCCGTGATGTACAACGGATACTCCATAAATGTTTGACAAACCAACGAAGAATGAAAAAAGCCCTAGTCA
GACTCCCATCCAAAGTAGGAATCTCTTTAACATTCTTGACTCACTATCACTTTACCTCAAATTGAACAGATT
CCATGACGGAACCTCATTCTTACAACTAGCCAGTGACATGTGGGACAGCTCTGGCCAGGGCTCTGGGACTGCA
GTGTACTTGCGCTCTGCACGGTCCAGGAGCTGTGATGTGGCTGTGGTCTAGGGGAATCCTGCCCTGCCCCATGGAG
TTGCGCAGCACAAACCCTGGCTCCAATTGCCAGAAGGCTCTTTTAAATGCTGAACCAAAATGTGCTTTTTTTTT
TTTTTTTGTAGATGGAGTTTCACTCTTGTGCCCAGGCTGGAGTGCAATGGCGGATCTCAGCTCACTGCAGCCAC
TGCTTCCAGGTTCAAGTGATTCTCCTGCCTCAGCTCCCGAGTAGCTGGGATTACAGGCATGCGCTAACACACC
CAGCTAATTTTGTATTTTAGTAGAGACGAGGTTTCTCCATGTTTCGACAGGCTGGTCTCGAACTCCACCTCAGC
CTCCCAAAGTGTGGGATTACAGGTGTGAGCCACCGTGACCAGCCAATGTGCCTTCTTATAGTGTCTACTCATTG
GTCTTTGTTCTGCCCAGTGATAACAATGGGATAACGCCGTGTACACATCTTATTGTGAAACCCTTCCCTGTGC
TGAGATTAAATGAACCTAAGATTATTAATAGTATATTTCCCTTGACAGCTAGCGTTTGATGATTTTAAAGCC
TTATGTATAAATAAACCAAGGAAGTAAGCAGTCATATTGCTAATTTGCTAACTCCTATCTATTGAATGGTGAAG
TTTTAAAAATTTCCCAAGGTAAGTTAAGATTCAAACACCATCTATTGAGCACCTACATTGTGTGCCAGGTAGTA
AAATAGGTGCTTTCATACACATTGTCTCAATCTCTGTGAGTGCAGAATTATCTCTGCATTGAACTTGAGGAAA
CATGCTCAGAGTGCAAGAAGCTTCTTGCCTGAGATCACCTAGAAAGGAACCTCAGAGCCGGCAACTGAATCTT
GGTCCCTGTGATGTCAAGCCCATGTCTCCACTGCAGAACATGGCCTCTAGATTAATGCCACCGATTAGGAA
CACCTCCGACAGTCTTGAAATACCCCATGTGCTTGTGTTTTTCTTCTGGCTTCTTCTATTACAGTCTC
TTCATTGGAAGCTCTGTAGGCCAAGGCCAGAGCTGATACTGACACGGAGCCAATGCAGATAGCACATCAGATGCT
AGGGGTGCTGGGAGGATTAAGGGACTTAATCTGCTAGGAACACCTGTACTTGAAGTGGAGGAGCTAGGGGGCC
ACAGTTGCTGCTTCAATTAACATAGAGGTTTTGGATTTTTTCTCTGTGGTTTTTTTTTAAGTGGATTGGCAGA

1313/6881
FIGURE 1221B

CTCCTTGTTGCTTAAGAGTGGCTTTCTAGGCAGGCCACTGGCATCTGAATTCATCATTGACAATAAATGTAAGAA
ATTGGAATAAAAAAGAGAGACCTGCTGTTATTTCGCTTTTGTTCTCCAGTGATTGATTAACTCAGGGCAAGGCTG
AATATCAGAGTGTATCGCACTGAAGAATAATAATCCATTCAGTAATGTTATAGTTATCCTCAATCTAAATATGTC
AACTGTCATTTTGCTACTTTTCAAATAAAATACTTGAAAACTGTC

1314/6881

FIGURE 1222

MKKREGTQLSSQQSVMSKSLASFLGFSKQSPQKKNHLVLEKKTESATFRVCGENVTCVEYAIISWLQDLIEKEQCPY
TSEDECIKDFDEKEYQELNELQKKLNINISLDHKRPLIKVLGISRDVMQARDEIEAMIKRVRLAKEQESRADCIS
EFIEWQYNDNNTSHCFNKMTNLKLEDARREKKKTVDVKINHRHYTVNLNTYTATDTKGHSLSVQRLTKSKVDIPA
HWSDMKQQNFCVVELLPSPDEYNTVASKFNQTCSHFRIEKIERIQNPDLWNSYQAKKKTMDAKNGQTMNEKQLFH
GTDAGSVPHVNRNGFNRSYAGKNAVAYGKGTFFAVNANYSANDTYSRPDANGRKHVYYVRVLTGIYTHGNHSLIV
PPSKNPQNPTDLYDTVTDNVHHPSLFVAFYDYQAYPEYLITFRK

1315/6881
FIGURE 1223

GAATTCGGGGGGCGCCGGAGTGGAGAAAGGAGCCAGCGGTGGGCAGCGCTGCTGGGATGGCGCGGGCCGGGGCCGG
CGTGGCTGCTGCTGGCAATCTGGGTGGTCCTGCCATCATGGCTGTCTCTGCAAAGGTCTCCTCGCTCATTGAGA
GAATCTCTGACCCCAAGGACTTGAAAAACTGCTCAGAACCCGGAATAATGTACTGGTGCTTTACTCCAAATCTG
AGGTGGCAGCTGAAAATCATCTCAGGTTACTGTCCACAGTGGCCAGGCGGTGAAAGGACAAGGGACCATCTGCT
GGGTGGACTGTGGTGATGCAGAGAGTAGAAAATTGTGCAAGAAGATGAAAGTTGACCTGAGCCCGAAGGACAAAA
AGGTTGAATTATTCCATTACCAGGATGGTGCATTTCACTGAATATAACCGAGCTGTGACATTTAAGTCCATAG
TGGCCTTTTTGAAGGATCCAAAAGGGCCCCCACTGTGGGAGGAAGATCCTGGAGCCAAAGATGTTGTCCACCTTG
ACAGTGAAAAGGACTTCAGACGGCTCCTGAAGAAGGAAGAGAAGCCGCTCCTGATCATGTTTTATGCCCCCTGGT
GCAGCATGTGCAAGAGGATGATGCCGCATTTCCAGAAGGCTGCGACTCAGCTGCGAGGCCACGCCGTGCTGGCCG
GGATGAATGTCTACTCCTCTGAATTTGAAAACATCAAGGAGGAGTACAGCGTGCGCGGCTTCCCCACCATCTGCT
ATTTTGAGAAAGGACGGTTCTTGTTCAGTATGACAACATATGGGTCCACAGCTGAGGACATTGTGGAGTGGCTGA
AGAATCCGCAGCCGCCACAGCCCCAGGTCCCTGAGACTCCCTGGGCAGATGAGGGCGGCTCCGTTTATCACCTGA
CCGATGAAGACTTTGACCAGTTTGTGAAGGAACACTCCTCTGTCTCGTCATGTTCCACGCCCCATGGTGTGGCC
ACTGTAAGAAAATGAAGCCGGAGTTTGAGAAGGCAGCAGAAGCCCTCCATGGAGAAGCGGATAGCTCTGGTGTCC
TTGCAGCTGTGATGCCACTGTCAACAAGGCCCTGGCAGAAAGATTCCACATCTCAGAGTTTCTTACGTTGAAGT
ATTTTAAGAATGGAGAGAAATACGCAGTGCCTGTGCTCAGGACAAAGAAGAAGTTTCTCGAGTGGATGCAAAACC
CTGAGGCCCCCCCCGCCCCAGAGCCACGTGGGAAGAGCAGCAGACAAGCGTGTGACCTGGTGGGGGACAACCT
TCCGGGAGACCCTGAAGAAGAAGAAACACACCTTGGTCATGTTCTACGCCCCCTGGTGCCCACTGTGAAGAAGG
TCATTCCGCACTTTACTGCTACTGCTGATGCCTTCAAAGATGACCGAAAGATTGCCTGTGCCGCTGTTGACTGTG
TCAAAGACAAGAACCAAGACCTGTGCCAGCAGGAGGCGGTCAAGGGCTACCCCACTTTCCACTACTACCACTATG
GGAAGTTTCGAGAAAAGTATGACAGCGACCGCACAGAATTGGGATTTACCAATTATATTCGAGCCCTCCGGGAGG
GAGACCATGAAAGACTAGGGAAAAAGAAGGAAGAGTTATAATTCCTGCCTCAGAAAAAGCTTTTCCATTACACTG
TGAATGATACCTGTTTTGTTGTTTCTGAATTTCCCCCGAATTC

1316/6881
FIGURE 1224

MARAGPAWLLLLAIWVVLPSWLSSAKVSSLIERISDPKDLKKLLRTRNNVLVLYSKSEVAAENHLRLLSTVAQAVK
GQGTICWVDCGDAESRKLCKMKVDLSPKDKKVELFHYQDGAFHTEYNRAVTFKSIVAFKDKPGPPLWEEDPGA
KDVVHLDSEKDFRLLKKEEKPLLIMFYAPWCSMCKRMMPHFQKAATQLRGHAVLAGMNVYSSEFENIKEEYSVR
GFPTICYFEKGRFLFQYDNYGSTAEDIVEWLKNPQPQPQVPETPWADEGGSVYHLTDEDFDQFVKEHSSVLVMF
HAPWCGHCKMKPEFEKAAEALHGEADSSGVLAAVDATVNKALAERFHISEFPTLKYFKNGEKYAVPVLRTKKKF
LEWMQNPEAPPPPEPTWEEQQTSVLHLVGDNFRETLLKKKKHTLVMFYAPWCPHCKKVIPHFTATADAFKDDRKIA
CAAVDCVKDKNQDLCQQEAVKGYPTFHYHYGKFAEKYDSRTELGFNTYIRALREGDHERLGKKKEEL

1317/6881
FIGURE 1225

CTCAGACTGCTGTGCTAGCAATCAGTGAGACTCCGTGGGCGTAGGACCCTCTGAGCCAGGTGCGGGATATAATCT
TGTGGTGCGCCGTTTTTTAAGCCGGTCCGAAAAGCGCAATATTCGGGTGGGAGTGACCCGATTTCCCAGGGCTGT
GACCATCTATGACAAGCCGGCATCTTTCTTTAAAGAGACACCTCIGGACCTGCTGCACCGGCTCTTCATGAAGCT
GGGTGGCACTCACTCTCTGTTCAGGGCCTGCTCAGAACCTGAGGACGCAGCCATGGAGCGGTGCGGCCTTCATGGA
GCTGGATGCTGGGAGCAGGCTGGTGATGCATCTCCGCGAGTGCCAGCCCTGCTGGTCAGCAGCACGGGCTGGAC
AGAGTTTGAACAACCTTACTCTTGATGGACACAACCTTCCTTCTCTGTCTGTGTGATAACAGGGTCGGTGGACCT
GGGTGTCTGTCTGCACATGTCCTCCAGTGGCCTGGACCTGCCCCATGAAGGTGGTGGACATGTTCCGGGTGCTGTTT
GCCTGTGTGTGCCGTGAACCTCAAGTGTTTACATGAGCTGGTGAAACATGAAGAAAATGGCCTGGTCTTTGAGGA
CTCAGAGGAACTGGCAGCTCTGCAGATGCTTTTCTCAAACCTTCTCTGATCCTGCAGGCAAGCTAAACCAGTTTTG
GAAGAACCCTGCGGGAGTCGCAGCAGCTCCGATGGGATGAGAGCTGGGTGCAGACTGTGCTCCCTTTGGTTATGGA
CATACAACTCCTGGGCCAGAGGCTAAAACCCCGGGACCCCTGCTGTCTTCCCGCAGCTTCTTCTCGGAGTCTCA
GGGCAAACCCTTTTGAGCAGCGCCTCCCAGTGGCCAGAAGCTGAAATGACGGCAGTGGTGCCGCCTGGTGAATGA
ATTGGTTCTGTGACCCGG

1318/6881

FIGURE 1226

MKLGGTHSPFRACSEPEDAAMERSAFMELDAGSRLVMHLREWPALLVSSTGWTEFEQLTLDGHNLP
SLVCVITGS
VDLGVCLHMSSSGLDLPKVVDMFGCCLPVCVAVNFKCLHELKHEENGLVFEDSEELAALQMLFSNFPDPAGKLN
QFWKNLRESQQLRWDESQVQTVLPLVMDIQLLGQRLKPRDPCCPSRSFFSESQGKPF

1319/6881
FIGURE 1227

GCAGACACGTGATCGCGGGGAGGGGGGGGGCGTGGCAGGAGCAAGCGTCTGCCGCGGTGGCCGGGTGCCGGTA
AGGGTTTCCAGCGCCCCCGGCCTAGGTTTTGGAGGCGCGGAATGCGTTTCGTTGCTCAGTGTCCGGAATCCCCCT
ATTCCCATCGGCCGAGGCTGTCACTTTACGCTCATAACCGTTTTTCTTTACTGCACTCGTGTCCGGAGGAAAGGG
ACTTGCGTGGCACCCCCAGACCTCCCCGTCTCCGCTTCCACGTTTGGTACATCCTGCCTGAGGCAGGAAGCCGCA
GCTGAGGGACGGCCTGTCTGACGGTGCAGATGGTGGTGGCTGCGAGGCTCATTCTAGCAAGGAACAAGGCTTT
CCCGCTTTGATTTTATAAATATTATGTTTACAAAGCTGTAATATATAGAAATTGATAAGACGTGTCCCTGTCCCT
GGAAACGCAGGCACCGCGTGTGGAAAGACATTCATCTGGGCTGTTTGACAGACTCCCCAGTTGGTGCCATGCT
CTGTGCTTAGGGAAGTGTGAGACCCCTGGAGGGGTGGGTACCGGGACCGCACTCAGCCTGGGGTTTGGAGGCGGC
CTCCTATAGGAAGCGACCTGGGACCTAAGATTTTAGACTGACTGTGGGTTTCACTGGAATAAAAAGGAAGAAACA
AAGAGCATTGCAGGCATCGGGACTGTCACTTTGACAAGATCAAAGCTGCAGGAAAATGGACAGTGAGGTTTCTAGA
GAGATGGAAGGATCTTGGATTTGATTGATGATGCTTGGCGAGAAGACAAGCTGCCTTATGAGGATGTGCAATAC
CACTGAATGAGCTTCTGAACCTGAACAAGACAATGGTGGCACCACAGAATCTGTCAAAGAACAAGAAATGAAGT
GGACAGACTTAGCCTTACAGTACCTCCATGAGAATGTTCCCCCATTGGAAACTGACGCTTGGCTCCTTTCTTGT
GGATGGATTTTCTCAAAGTACACAGATAAAGCATGGTTTGTTCAGTCTCCAATTCAAACCTTTGAGTAATAAA
TCAGCACTCAAAAATGTACACCCATTTAGTTTGTGGTAGCAAAGTGCAATGCGAAATTGAATGAGAACTGAGAT
TTCTCAGTAATGGTGAATATTTGCTCTTTAAACCTAAACTCTTCATTGAGTAGCTTATATTGACATGATTG
GTTAAACATTTGCCTCTACCTCTGATTTTGCTTTGCTGTCAAAGTTTAAACACCTTCCAACCTACTTATGTGTGTC
TGTAACACAGGTGATTGAACGTATGAGAGGGAAAGGCAAGAAAAGGAAGCCAGACACTAGGAGAATTATTAAC
TTCTCATACTTCCCCACATTGAGAAGCATTCGGAGTGTATTTAGCCTGTAGATGTTGTGATATGCAATATCCCA
TTCCCTGGTTACTGGCATTCCCTAAGATTCTTCATGGTATTTTCAAACCTTTGGATAAATTTACAGATTAGAAAGAT
ATCTGACAGTTAATCTCTGTTCTCCTTACAAATTCCTTTTGTGCTGCTGGAAAGGATCTTTGGCTAGGTGGATGA
CTAGTTTTATTCAAAGCCTTTTCTCAAAGCCCTTTTCACTTACAACCCCCACTATGGAATCAGTATTTAGTTAT
ACATTTGTATAAGAACCTGTATTTTGAAAAACACATTCATGTATTTATTCCTGGAATTTTGCCTGTAAAC
AGTGTCTTTTATGTTCTCTCCCCAGATTGTAAACTCTGTAAAGAGCTGCTTGTATCTGTATCCCTTGTGAAACT
CTGAAAACACTGAATAACTAAATCTCTTCTCATCCTTT

1320/6881

FIGURE 1228

MRGRGGGRGRSKRLPRWPGAGKGFQRPRPRFWRRGNAFVAQCRTSPYSHRPRLSLYAHNRFSLHSCREERDLRG
TPRPPRLRFHVWYILPEAGSRS

1321/6881
FIGURE 1229

AGTGGCGGAGAGGATCGTGGTACTGCTATGCGCGGAATCATCGGAATCCTTCACCATGGCATCCAGCCCGGCCAG
CGTCGGCGAGGCAATGATCCTCTCACCTCCAGCCCTGGCCGAAGCTCCCGGCGTACTGATGCCCTCACCTCCAGC
CCTGGCCGTGACCTTCCACCATTGAGGATGAGTCCGAGGGGCTCCTAGGCACAGAGGGGCCCCCTGGAGGAAGAA
GAGGATGGAGAGGAGCTCATTGGAGATGGCATGGAAAGGACTACCGCGCCATCCCAGAGCTGGACGCCATATGAG
GCCGAGGGACTGGCTCTGGATGATGAGGACGTAGAGGAGCTGACGGCCAGTCAGAGGGAGGCAGCAGAGCGGGCC
ATGCGGCAGCGTGACCGGGAGGCTGGCCGGGGCTGGGCCGATGCGCCGTGGGCTCCTGTATGACAGCGATGAG
GAGGACGAGGAGCGCCCTGCCCGCAAGCGCCGCCAGGTGGAGCGGGCCACGGAGGACGGCGAGGAGGACGAGGAG
ATGATTGAGAGCATCGAGAACCTGGAGGATCTCAAAGGCCACTCTGTGCGGAGTGGGTGAGCATGGCGGGCCCC
CGGCTGGAGATCCACCACCGCTTCAAGAACTTCTGCGCACTCACGTGACAGCCACGGCCACAACGTCTTCAAG
GAGCGCATCAGCGACATGTGCAAAGAGAACCGTGAGAGCCTGGTGGTGAACATATGAGGACTTGGCAGCCAGGGAG
CACGTGCTGGCCTACTTCTGCTGAGGACCGGGCGGAGCTGCTGCAGATCTTTGATGAGGCTGCCCTGGAGGTG
GTACTGGCCATGTACCCCAAGTACGACCGCATCACCACCATCCATGTCCGCATCTCCACCTGCCTCTGGTG
GAGGAGCTGGCTCGCTGAGGACGTGATCTGAACAGCTGATCCGCACCAAGTGGGTGGTGACCACTGCACT
GGCGTCTGCCCCAGCTCAGCATGGTCAAGTACAAGTGAACAAGTGCAATTCGTCTGGGTCTTTCTGCCAG
TCCCAAGAACAGGAGGTGAACACAGGCTCCTGTCTGAGTCCAGTCCGCGCGGCCCTTTGAGGTCAACATGGAG
GAGACCATCTATCAGAACTACCAGCGTATCCGAATCCAGGAGAGTCCAGGCAAAGTGGCGGCTGGCCGGCTGCC
CGCTCCAAGGACGCCATTCTCTCGCAGATCTGGTGGACAGCTGCAAGCCAGGAGACGAGATAGAGCTGACTGGC
ATCTATCACAACAATATGATGGCTCCCTCAACACTGCCAATGGCTTCCCTGTCTTTGCCACTGTCATCCTAGCC
AACCACGTGGCCAAGAAGGACAACAAGGTGCTGTAGGGGAAGTACCGATGAAGATGTGAAGATGATCACTAGC
CTCTCCAAGGATCAGCAGATCGGAGAGAAGATCTTTGCCAGCATTGCTCCTTCCATCTATGGTCATGAAGACATC
AAGAGAGGCTGGCTCTGGCCCTGTTTCGGAGGGGAGCCCAAAACCCAGGTGGCAAGCACAAGGTACGTGGTGAT
ATCAACGTGCTCTTGTGCGGAGACCCTGGCACAGCGAAGTCCGAGTTTCTCAAGTATATTGAGAAAGTGCCAGC
CGAGCCATCTTACCCTGGCCAGGGGGCGTGGCTGTGGGCTCACGGCGTATGTCCAGCGGCACCCTGTCCAGC
AGGGAGTGGACCTTGGAGGCTGGGGCCCTGGTTCTGGCTGACCGAGGAGTGTGTCTCATTGATGAATTGACAAG
ATGAATGACCAGGACAGAACCAGCATCCATGAGGCCATGGAGCAACAGAGCATCTCCATCTCGAAGGCTGGCATC
GTCACCTCCCTGCAGGCTCGTGCACGGTCATTGCTGCCGCCAACCCCATAGGAGGGCGCTACGACCCCTCGCTG
ACTTTCTCTGAGAACGTGGACCTCACAGAGCCCATCATCTCACGCTTTGACATCCTGTGTGTGGTGAGGGACACC
GTGGACCCAGTCCAGGACGAGATGCTGGCCCGCTTCTGGTGGGCGAGCCACGTGAGACACACCCAGCAACAAG
GAGGAGGAGGGGCTGGCCAATGGCAGCGCTGCTGAGCCCGCATGCCAACACGTATGGCGTGGAGCCCTGCC
CAGGAGGTCTGAAGAAGTACATCATCTACGCCAAGGAGAGGGTCCACCCGAAGCTCAACCAGATGGACAGGAC
AAGGTGGCCAAGATGTACAGTGACCTGAGGAAAGATCTATGGCGACAGGCAGCATCCCCATTACGGTGGCGCAC
ATCGAGTCCATGATCCGCATGGCGGAGGCCACGCGCGCATCCATCTGCGGGACTATGTGATCGAAGACGACGTC
AACATGGCCATCCGCGTGATGCTGGAGAGCTTCATAGACACACAGAAGTTCAGCGTCATGCGCAGCATGCGCAAG
ACTTTTGCCCGCTACCTTTTATTCCGGCGTGACAACAATGAGCTGTTGCTCTTCACTGAAGCAGTTAGTGGA
GAGCAGGTGACATATCAGCGCAACCGCTTTGGGGCCAGCAGGACACTATTGAGGTCCCTGAGAAGGACTTGGTG
GATAAGGCTCGTCAGATCAACATCCACAACCTCTCTGCATTTTATGACAGTGAGCTCTTCAGGATGAACAAGTTC
AGCCACGACCTGAAAAGGAAAATGATCCTGCAGCAGTTCTGAGGCCCTATGCCATCCATAAGGATTCTTGGGAT
TCTGGTTTGGGGTGGTCAAGTCCCTCTGTGCTTTATGGACACAAAACCAGAGCACTTGATGAACCTGGGGTACTA
GGGTGAGGGCTTATAGCAGGATGTCTGGCTGCACCTGGCATGACTGTTTGTCTTCTCCAAGCCTGCTTTGTGCTTC
TCACCTTTGGGTGGGATGCCTTGGCAGTGTGCTTACTTGGTTGCTGAACATCTTGCCACCTCCGAGTGCTTTGT
CTCCACTCAGTACCTTGGATCAGAGCTGCTGAGTTCAGGATGCCTGCGTGTGGTTTAGGTGTTAGCCTTCTTACA
TGGATGTGAGGAGAGCTGCTGCCCTCTTGGCGTGAGTTGCGTATTAGGCTGCTTTTGTGCTTTTGGCCAGAGA
GCTGGTTGAAGATGTTTGAATCGTTTTCAGTCTCCTGCAGGTTTCTGTGCCCTGTGGTGGAGAGGGCACGAC
AGTGCCAGCGCAGCGTTCTGGGCTCCTCAGTGCAGGGGTGGGATGTGAGTCATGCGGATTATCCACTCGCCACA
GTTATCAGCTGCCATTGCTCCCTGTCTGTTTCCCACTCTCTTATTTGTGCATTGCGTTTGGTTTCTGTAGTTTT
AATTTTAAATAAGTTGAATAAAATAT

1322/6881
FIGURE 1230

MAESSESFTMASSPAQRRRGNDPLTSSPGRSSRRTDALTSSPGRDLPPFEDESEGLLGTEGPLLEEEEDGEELIGD
GMRDYRAIPELDAYEAEGLALDDEDVEELTASQREAAERAMRQRDREAGRGLGRMRGGLLYDSDEEDEER PARK
RRQVERATEDGEEDEEMIESIENLEDLKGHSVREWVSMAGPRLEIHHRFKNFLRTHVDSHGHNFKERISDMCKE
NRESLVVNYEDLAAREHVLAYFLPEAPAEELLQIFDEAALEVVLAMYPKYDRITNHIHVRI SHLPLVEELRSLRQL
HLNQLIRTSGVVTSTCTGVLPQLSMVKYNCNKC NFVLGPFQSQNQEVKPGSCPECQSAGPF EVNMEETIYQNYQR
IRIQESPGKVAAGRLPRSKDAILLADLVDSCKPGDEIELTGIYHNNYDGS LNTANGFPVFATVILANHVAKKDNK
VAVGELTDEDVKMITSLSKDQQIGEKIFASIAPSIYGHEDIKRGLALALFGGEPKNPGGKHKVRGDINVLLCGDP
GTAKSQFLKYIEKVSSRAIFTTGQASAVGLTAYVQRHPVSREWLEAGALVLADRGVCLIDEFDKMNDQDRTSI
HEAMEQQSISISKAGIVTSLQARCTVIAAANPIGGRYDPSLTFSENVDLTEPIISRFDILCVVRDTPVQDEML
ARFVVGSHVRHHP SNKEEEGLANGSAAEPAMPNTYGV EPLPQEV LKKYIIYAKERVHPKLNQMDQDKVAKMYSDL
RKESMATGSIPITVRHIESMIRMAEAHARIHLRDYVIEDDVNMAIRVMLESFIDTQKFSVMRSMRKTFARYLSFR
RDNNELLLFILKQLVAEQVTYQRNRFGAQQDTIEVPEKDLVDKARQINIHNL SAFYDSELF RMNKF SHDLKRKMI
LQQF

1323/6881
FIGURE 1231

ACCATGGGCGGCTGCTGCGGGCCGCCGGCTGCCGCCGCTGCTTTGCGCGCTGCTGCTTCTGCTGGTTGGGGGA
GCGTTCCCTGGGTGCCTGTGTGGCTGGGTCTGATGAGCCTGGCCCAGAGGGCCTCACCTCCACCTCCCTGCTAGAC
CTCCTGCTGCCCCTGGCTTGGAGCCACTGGACTCAGAGGAGCCTAGTGAGACCATGGGCCTGGGAGCTGGGCTG
GGAGCCCCTGGCTCAGGCTTCCCCAGCGAAGAGAATGAAGAGTCTCGGATTCTGCAGCCACCACAGTACTTCTGG
GAAGAGGAGGAAGAGCTGAATGACTCAAGTCTGGACCTGGGACCCACTGCAGATTATGTTTTTCTGACTTAACT
GAGAAGGCAGGTTCCATTGAAGACACCAGCCAGGCTCAAGAGCTGCCAAACCTCCCCTCTCCCTTGCCCAAGATG
AATCTGGTTGAGCCTCCCTGGCATATGCCTCCCAGAGAGGAGGAAGAAGAGGAAGAGGAAGAGGAGGAGAGGGAG
AAGGAAGAGGTAGAGAAACAAGAGGAGGAGGAAGAGGAGGAGCTGCTCCCTGTGAATGGATCCCAAGAAGAAGCC
AAGCCTCAGGTCCGTGACTTTTCTCTCACCAGCAGCAGCCAGACCCAGGGGCCACCAAAAGCAGGCATGAAGAC
TCCGGGGACCAGGCCTCATCAGGTGTGGAGGTGGAGAGCAGCATGGGGCCAGCTTGCTGCTGCCTTCAGTCACC
CCAATACTAGTACTCCGGGGACCAGGACTCCACCAGCCAAGAGGCAGAGGCCACAGTGTGCCAGCTGCAGGG
CTTGGGGTAGAGTTCGAGGCTCCTCAGGAAGCAAGCGAGGAAGCCACTGCAGGAGCAGCTGGTTTGTCTGGCCAG
CACGAGGAGGTCCGGCCTTGCCCTTCAATCCCTCAAACCACAGCTCCCAGTGGGGCCGAGCACCCAGATGAAGAT
CCCCTTGGCTCTAGAACCTCAGCCTCTTCCCCACTGGCCCCCTGGAGACATGGAACCTGACACCTTCTCTGCTACC
TTGGGACAAGAAGATCTCAACCAGCAGCTCCTAGAAGGGCAGGCAGCTGAAGCTCAATCCAGGATAACCTGGGAT
TCTACGCAGGTGATCTGCAAGGACTGGAGCAATCTGGCTGGGAAAACTACATCATTCTGAACATGACAGAGAAC
ATAGACTGTGAGGTGTTCCGGCAGCACCGGGGGCCACAGCTCCTGGCCCTGGTGGAAGAGGTGCTGCCCCGCCAT
GGCAGTGGCCACCATGGGGCCTGGCACATCTCTCTGAGCAAGCCCAGCGAGAAGGAGCAGCACCTTCTCATGACA
CTGGTGGGCGAGCAGGGGGTGGTGCCCACTCAAGATGTCTTTCCATGCTGGGTGACATCCGCAGGAGCCTGGAG
GAGATTGGCATCCAGAACTATTCCACAACCAGCAGCTGCCAGGCGCGGGCCAGCCAGGTGCGCAGCGACTACGGC
ACGCTCTTTCGTGGTGTGGTGGTCAATTGGGGCCATCTGCATCATCATCATTGCGCTTGGCCTGCTCTACAACTGC
TGGCAGCGCCGGCTGCCAAGCTCAAGCACGTGTGCGACGGCGAGGAGCTGCGCTTCGTGGAGAACGGCTGCCAC
GACAACCCACGCTGGACGTGGCCAGCGACAGCCAGTCGGAGATGCAGGAGAAGCACCCAGCCTGAACGGCGGC
GGGGCCCTCAACGGCCCCGGGAGCTGGGGGGCGCTCATGGGGGGCAAGCGGGACCCCGAGGACTCGGACGTGTTT
GAGGAGGACACGCACCTGTGAGCGCAGCCGAGGCGCAGGCCGAGTGGGCCGCCAGGACCAAGCGAGGTGGACCCC
GAAACGGACGGCCCCGAGCCCGCACCAGCCCCGCGCCTACCCGGGCGCCCCCGCGCCTGGCCCTCGGCGCGGG
CTCCTTCCCGCTTCCCCGACTTCACACGGCGGCTTCGGACCAACTCCCTCACTCCCGCCCGAGGGGCAGGCCTC
AAAGCCCCGCTTGGCCCCGCTTTCCCGCCCCCTGAACCCCGCCCCCGGGCGGGCGGGCGGCGCTTCTGCGCCCC
GGGACTCAATTAAACCCGCCCGGAGACCACGCCGGGCCAGCG

1324/6881
FIGURE 1232

ATTTTACCTGATGCTATGAGAGAATCATATTGAAGATGAAATGTCTAATATATAATGTATATTTTAAAGCAGAGA
CTATTTTGGTGGATAGGTGGGAGGGAGCAAGGGGAGTTTGAGGGAATCAGAGCTTGATGCTACTGTACAGAACTG
GACAGGTTGGGCCCGCAGTGGTGGGGCCAGAGGGCTCTGTGCTCTAGGAGCTAAGCCAGCAGCCCCGAGAGGGG
ACTTGGCTGGGCCTTTCTATGGGCAAGGCCAGTGCTCTTCCTGCCCCACAGGGACCATGGAGCAGTGGCACCC
TATGGGGCTATGATCCCTAGGCCTGGGCCTGGGCCTGCCTATGGCCCCAGAGCTACCCTGGGAGTGTGAGTGCTAG
CAGCACAGCTACCTCTGGTGGCAGGAGAAGAGAGGGCCAGCACAGCAGCAGGCCAGGCCTTCCTGTCCAGGTCTG
CATGGAGCACTCGGTGACCCAGAGCAGGGACTGGAGGCACCCCCAGCCCTGCCCCAGGCCACAGCAGGACAGGCC
GGGACAGGCCTCACCCAAGGCCAAGGCTGGCATCAGCCAATCATTAGAGCTGAGGCCCTGGGCCTAGCCTGCCC
TTCTCAGGTGCCAATACCACCCCAGCCCTGCCCTTGGCCTCACTTTTCCCAGCAATAAGTGGGGTTACACCCC
GCCTCGGGAATACTTTCCCCTTCTAAATGGGACTTGCTGTTACCTCAGGAGGCTCCTTAGTGCAAATATGACCCCT
GGTCAGGGCTTTGCCACCGTTGAAGCCCTGCAGAAGGTGCAATGTAGGGGTCTTGGGGCCACAGAGGAGAGGCCA
CTTCCCACAGGACCCCCAACATGAAGTCTAGGCCTCAGGGGCTCCCCCCTTCTTCCTCCAGCAGCGGGAAGT
CCACTGCTCTCCAGGCCCTGTTCTGGAGGCTAACCTTGGTTTCTGGAGAGTGTGCCCCCTCCACCCTCCCTCCAG
CAGCCCTGATCACACCATGAGAGCCAGGAACGGGTCACCCTGCTGAAGATCACTCTGTGCCCTGGGGGAGGAGCC
AAGCCCTCACCCACAAGGGGCAGGTGGGGCTTGGTTGCTGACCCGGCCCAAGTCCCCACAGAGCACCTTCTGT
AGCTCCAGCTTGCTCCCTGG

1325/6881
FIGURE 1233

MAQSYPGSVSASSTATSGGRRREAQHSSRPGLPVQVCMEHSVTQSRDWRHPQPCPRPQQDRFGQASPKAKAGISQ
SFRAEALGLACPSQVPIPPQPCWP HFFPAISGVHHPPREYFLLNGTCCYLRRLLSANMTLVRALPPLKPCRRC
NVGVLGPQRRGHFPPGPPT

1326/6881
FIGURE 1234

CTGCAGACGAGGCAGGCGGAAGAGGCGGGACTTCGCGGGTGACGTCAATCGGGGCGCCGGAGGCCCGGGGCGCCTG
GGAATTTGAAGCAAACAGGCAGCGCGGACAATGGCGGTTCGCTCGTGACAGCTTTGGGGCCATTGGTGACGGGTCT
GTACGACGTGCAGGCTTTCAAGTTTGGGGACTTCGTGCTGAAGAGCGGGCTTTCTCCCCCATCTACATCGATCT
GCGGGGCATCGTGTCTCGACCGGTCTTCTGAGTCAGGTTCAGATATTTTATTCCAACTGCCCAAAATGCAGG
CATCAGTTTTGACACCGTGTGTGGAGTGCCTTATACAGCTTTGCCATTGGCTACAGTTATCTGTTCAACCAATCA
AATTCCAATGCTTATTAGAAGGAAAGAAACAAAGGATTATGGAATAAGCGTCTTGTAGAAGGAACATTAAATCC
AGGAGAAACCTGTTTAATCATTGAAGATGTTGTCCAGTGGATCTAGTGTTCGAACTGTTGAGGTTCTTCA
GAAGGAGGGCTTGAAGGTCACTGATGCCATAGTGTGTTGGACAGAGAGCAGGGAGGCAAGGACAAGTTGCAGGC
GCACGGGATCCGCTCCACTCAGTGTGTACATTGTCCAAATGCTGGAGATTCTCGAGCAGCAGAAAAAGTTGA
TGCTGAGACAGTTGGGAGAGTGAAGAGGTTTATTCAGGAGAATGTCTTTGTGGCAGCGAATCATATGGTTCTCC
CCTTTCTATAAAGGAAGCACCCAAAGAACTCAGCTTCGGTGCACGTGCAGAGCTGCCCAGGATCCACCCAGTTGC
ATCGAAGCTTCTCAGGCTTATGCAAAGAAGGAGACCAATCTGTGTCTATCTGCTGATGTTTCACTGGCCAGAGA
GCTGTTGCAGCTAGCAGATGCTTTAGGACCTAGTATCTGCATGCTGAAGACTCATGTAGATATTTGAATGATT
TACTCTGGATGTGATGAAGGAGTTGATACTCTGGCAAAATGCCATGAGTTCTTGATATTTGAAGACCGGAAGTT
TGCAGATATAGGAAACACAGTGAAAAAGCAGTATGAAGGAGGTATCTTTAAAATAGCTTCCTGGGCAGATCTAGT
AAATGCTCACGTGGTGCCAGGCTCAGGAGTTGTGAAAGGCTGCAAGAAGTGGGCCTGCCTTTGCATCGGGGTG
CCTCCTTATTGCGGAAATGAGCTCCACCGGCTCCCTGGCCACTGGGGACTACACTAGAGCAGCGGTTAGAATGGC
TGAGGAGCACTCTGAATTTGTTGTTGTTTATTTCTGGCTCCCGAGTAAGCATGAAACCAGAATTTCTTCACTT
GACTCCAGGAGTTCAGTTGGAAGCAGGAGGAGATAATCTTGGCCAACAGTACAATAGCCACACAAGAAGTTATTGG
CAAACGAGGTTCCGATATCATCATTGTAGGTGCTGGCATAATCTCAGCAGCTGATCGTCTGGAAGCAGCAGAGAT
GTACAGAAAAGCTGCTTGGGAAGCGTATTTGAGTAGACTTGGTGTTCAGTGCTTCAGATACATTTTCAGATAC
AATGTGAAGACATTGAAGATATGTGGTCCCTCTGAAAGTCACTGGCTGGAAATAATCCAATTATCTCTGCTTGG
TTCTTCCACAGGGCCTGTGTAAGAATGGGTTCTGGAGTTCTCATGGTCTTTAGGAAATATTGAGTAATTTGTAAT
CACCGCATTGATACTATAATAAGTTCACTTAAAGCTTGCTTTTTTTGAGACTGGTGTTCAGTACAGCCACAG
TCCTGTCTGGGTTAGGTCTTCCACATTTGAGGATCCTTCCTATCTCTCCATGGGACTAGACTGCTTTGTTATTC
TATTTATTTTTTAAATTTTTCGAGACAGGATCTCACTCTGTTGCCAGGATGGAGTGCAGTGGTGAGATCACGG
CTCATTGCAGCCTCGACCTCCCAGGTGATCCTCCACCTCAGCTTCCAGATTAGCTGGTGCTATAGGCATGCACC
ACCACGTCCATCTAAATTTCTTTATTATTTGTAGAGATGAGGTCTTGCCATGTTACCCAGGCTGGTCTCAACTCC
TGGGCTCAAGCGATCCTCCTGCCTCAGTCTCTCAAAGTGCTGGGATTACAGGTGTGAGCCACTGTGCCCAGCCTA
ATTGCAGTAAGACAAAAATTTAGGGCACCAAGAGGCTAAAGTCAGCACAGCTTTCTTGTGTCTGTATT

1327/6881
FIGURE 1235

CTCGGGTCTGGTGGCTGCCGGCCCTGCGGCATCTCGCCATGGGGAGCACGGAGAGCAGCGAGGGCCGCAGGGTGT
CCTTCGGAGTGGACGAGGAGGAGCGGGTCCGGGTGCTGCAGGGTGTCCGGCTGTCTGAAAACGTGGTGAACCGCA
TGAAGGAGCCCAGCTCTCCACCCCTGCTCCACATCTTCTACCTTTGGCCTTCAAGATGGCAACTTGAGAGCCC
CTCACAAGAATCCACACTGCCCAGGTGCGGGAGCAGTGGTGGCCAGCAGCCCTCAGGGATGAAGGAGGGTGTCA
AGAGGTATGAACAGGAGCATGCTGCTATCCAGGATAAGCTCTTCCAGGTGGCAAAGAGGGAAAGAGAGGGCTGCCA
CCAAGCACTCCAAGGCATCCCTGCCCACGGGCGAAGGCAGCATCAGCCATGAGGAGCAGAAGTCAGTCCGGCTGG
CCAGGGAGCTGGAGAGCAGAGAGGCAGAGCTAAGACGCCGTGACACCTTCTACAAGGAGCAGCTGGAGCGTATTG
AGAGGAAGAATGCTGAGATGTATAAACTGTCTTCAGAGCAATTCCATGAGGCAGCCTCAAAGATGGAGAGCACAA
TAAAGCCCCGCAGGGTGGAGCCCCGTCTGCTCAGGGTTGCAGGCCCAGATTCTCCACTGCTACCGAGATCGCCCCG
ATGAGGTGCTGCTGTGCTCGGACCTGGTCAAGGCATACCAGCGCTGCGTGAGCGCCGCCCAAGGGCTAGGAG
CAGACATCATTCCCTGCCCTGGCAGTGACTTGGAGCCCTGAAGAAGGGACCAATCATGGGACCACAGCCACTGTG
CCCTGCCGTTTCTGCTGGGCCCCCTGCATATGCCCTGAGCCTGGGGCTGCCACGTGTTAGGAAACAAAGTATG
CGCTACTGTCTGAAAACAAATAAAGCAGATGCCTTTGTTTTTCAGTCAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAA

1328/6881
FIGURE 1236

MGSTESSEGRRVVSFGVDEEERVVLQGVRLSENVVNRMKPSSPPPAPTSSTFGLQDGNLRAPHKESTLPRSGSS
GGQQPSGMKEGVKRYEQEHAAIQDKLFQVAKREREAATKHSKASLPTGEGSISHEEQKSVRLARELESREAELRR
RDTFYKEQLERIERKNAEMYKLSSEQFHEAASKMESTIKPRRVEPVCSGLQAQILHCYDRDPHEVLLCSDLVKAY
QRCVSAAHKG

1329/6881
FIGURE 1237

GAGAGTGGCCAGCGAGGGCAGCGTTTCGCCGCCCCCTCAGGCCCCGTCCCGGCCCGCAGCCGCGCTGCGTTTCGGTT
TGTGAGCAGGCCCCGGCCGGGCCAGGAGCGAGAGCGAGACTCTGGAGCGGTCCCGCCGCGAGTCGCCCCGGGCGGG
AAAGGCGGGCGATGCCCCAACCGCCGCTCGGGCCATGTCCGAGGGGCGCGGTGTTGTGCGCCCGGGGGCGCCG
TGCCCGCCTGTCGTCCCCGGGGCCAGCCGCTCGTCCGAGGCCCCGAGGAGCTGCGCCGCCACCTCGTGGGCCCT
CATCGAGCGCAGCCGGGTGGTGATCTTCAGCAAGAGCTACTGTCCCCATAGTACTCGGGTGAAGAAGTCTTTTC
TTCTTTGGGAGTCGAATGTAATGTCTTGGAACCTTGATCAAGTTGATGATGGGGCCAGGGTTCAAGAAGTGCTGTC
AGAAATCACTAATCAGAAAAGTGTGCCCAATATTTTCGTGAATAAAGTGATGTAGGTGGATGTGACCAAACCTTT
CCAGGCATATCAGAGTGGTTTGTACAGAAGCTCCTTCAGGAAGATTTGGCATATGATTATGATCTCATCATCAT
CGGTGGTGGTTCTGGAGGCCCTTCATGTGCGAAGGAAGCTGCCATTTTGGGAAAGAAAGTTATGGTGCTAGACTT
TGTTGTCCCGTCACCTCAGGGCACATCCTGGGGTCTTGGTGGCAGTTGTGTAAATGTAGGTTGTATTCTTAAGAA
ATTGATGCATCAGGCTGCCCTTTTGGGGCAGGCATTATGTGACTCAAGGAAATTTGGCTGGGAATATAATCAACA
AGTGAGGCACAAGTGGGAGACAATGACAAAAGCGATTGAGAACCACATCAGCTCTCTAAAGTGGGGCTACAGGTT
GTCTCTGAGGGAAGAGGCTGTGGCCTATGTCAATTCCTATGGAGAATTTGTTGAACATCATAAAATAAAGGCAAC
CAATAAAAAAGGACAGGAGACTTATTATACTGTGTCACAGTTTGTATAGCAACGGGTGAAAGGCCACGGTATTT
AGGAATCCAAGGAGATAAAGAATACTGTATTACTAGTGATGACCTTTTTTCTCTGCTTATTGCCCTGGCAAAAC
ATTAGTGGTGGGTGCTTCTTATGTGGCCTGGAGTGTGACGGGTTCTGGCTGGCTTTGGCCTAGATGTCACAGT
TATGGTACGCTCAATCCTTCTCCGTGGCTTCGACCAAGAAATGGCAGAAAAAGTGGGTTCTACATGGAGCAGCA
TGGTGTGAAGTTCCTACGGAATTCATACCTGTGATGGTTCAACAGTTGGAGAAAGGTTACCTGGAAAGCTGAA
AGTGTGGCTAAATCCACTGAAGGAACAGAAACAATTGAAGGAGTCTATAACACAGTTTGTAGCTATTGGTCTG
TGACTCCTGTACAAGGAAAATAGGCTTGGAGAAGATTGGTGTCAAAATTAATGAGAAGAGTGGAAGAAATACCTGT
AAATGATGTGGAACAGACCAATGTGCCATATGTCTATGCTGTTGGTGATATTTTGGAGGATAAGCCAGAGCTCAC
TCCTGTGCGCCATACAGTCAGGCAAGCTGCTAGCTCAGAGACTTTTTGGGGCCTCTTTAGAAAAGTGTGATTATAT
TAATGTTCCGACTACAGTGTTTACTCCTCTGGAGTATGGTGTGCTGTGGATTATCTGAAGAGAAAGCTATTGAAGT
ATATAAAAAAGAGAATCTAGAAATATATCATACTTTGTTCTGGCCTCTTGAATGGACAGTAGCTGGCAGAGAGAA
CAACACTTGTATGCAAAGATAATCTGCAATAAATTCGACCATGATCGGGTGATAGGATTTCATATTCTTGGACC
AAACGCCGGTGAGGTTACCCAAGGATTTGCAGCTGCAATGAAATGTGGGCTCACAAAACAGCTACTTGATGACAC
CATTGGAATTCACCCACATGTGGGGAGGTGTTACGACTTTGGAAATCACAAGTCGTCAGGACTAGACATCAC
TCAGAAAGGCTGCTGAGGCTAGGCCTGCTGCTGTTTAGTTCTCCTTGTCATATTCTCATTCTCTCAAAGATAAG
AATGCTCTCGGATAAAATGAGCCTGTGCTCATGACAGCTGCTCTGTTACTCAGGGACCAGTGACGGGCTGTCTTA
CGACACTTAGATGAGAAAGTAGACAAGGAAAGAGGACAGCAGTGGGCATCTGCCTTGTGGTCTTGCTGACAGCGA
GAAGCAGTGGGACTGCTTCCTTGACGCCTTAGCTTGGAGCCCCGTTATGAGGTGAGCCAAGGCTGACTCTCGCAA
GCCAGGACTGAGCTTCCTCGGAAAGACCTTTGAGTGGCACCATTACCTAAGTTAGCTTTTCTGGTCTGCTATTG
TTTTATCCCCTTGTCTTGTGTTTCTGTGAAAATATATTTTCAGTTAAGAAATGCTATAAAGTAGTGGTTTTTC
TAGTGCGTGGGCCTAGAATTCACACATGCTCACTGGTGAACAGTGTCTGTGGGCTGCTGTGGGCTGCATTTGGAT
AGCTGTCTGCATTAGCAGGAAGCTGTACACACTGTGTAGGGTTAGTCATCTCTTTTCTTTTGGGACATTTA
ACCTACTGTCAAACGCTGACTCATGCTTCACCTCACACTCACTACTTGGTGGTGATAACCTTGAAGCTATTCT
CCCCAATTAATATCTCGAGACTGAGCAAAATATCTCATGTAAGATAAAAGTACTTGAATTGCTTTTTCATGTTT
ATCTTAATAGTATTATTTCCAAAAGTTTTAATACTGTATTATGTGAAATCTAACTAATTTATCTGTGAAATAAT
TCCATCACAGTCTGTTTAAATGATGATAAAGTCCATAAATGAATACAGGT

1330/6881
FIGURE 1238A

AGCGATCCGAGGCCCGCCCCGGCCCCGCCCCGCGCCGCGCCGCGCCGCTTGCCGCGGGGCTAGCACTGACGTGT
CTCTCGGCGGAGCTGCTGTGCAGTGGAACGCGCTGGGCCGCGGGCAGCGTCGCCTCACGCGGAGCAGAGCTGAGC
TGAAGCGGGACCCGAGCCCGAGCAGCCGCGCCATGGCAATCAAATTTCTGGAAGTCATCAAGCCCTTCTGTGT
CATCCTGCCGAAATTCAGAAGCCAGAGAGGAAGATTCAAGTTTAAGGAGAAAGTGCTGTGGACCGCTATCACCTT
CTTTATCTTCTTAGTGTGCTGCCAGATTCCCCTGTTTGGGATCATGTCTTCAGATTCAAGCTGACCCCTTTCTATTG
GATGAGAGTGATTCTAGCCTCTAACAGAGGCACATTGATGGAGCTAGGGATCTCTCCTATTGTACAGTCTGGCCT
TATAATGCAACTCTTGCTGGCGCCAAGATAATTGAAGTTGGTGACACCCCAAAGACCGAGCTCTCTTCAACGG
AGCCCAAAGTTATTTGGCATGATCATTACTATCGGCCAGTCTATCGTGTATGTGATGACCGGGATGTATGGGGA
CCCTTCTGAAATGGGTGCTGGAATTTGCCTGCTAATCACCATTCAAGCTCTTGTGTGCTGGCTTAATTGTCTACT
TTTGGATGAACTCCTGCAAAAAGGATATGGCCTTGGCTCTGGTATTTCTCTTTCATTGCAACTAACATCTGTGA
AACCATCGTATGGAAGGCATTAGCCCCACTACTGTCAACACTGGCCGAGGAATGGAATTTGAAGGTGCTATCAT
CGCACTTTTCCATCTGCTGGCCACACGCACAGACAAGGTCCGAGCCCTTCGGGAGGCGTTCTACCGCCAGAATCT
TCCCAACCTCATGAATCTCATCGCCACCATCTTTGTCTTTGCAGTGGTCATCTATTTCCAGGGCTTCCGAGTGA
CCTGCCAATCAAGTCGGCCCCGCTACCGTGGCCAGTACAACACCTATCCCATCAAGCTCTTCTATACGTCCAACAT
CCCCATCATCCTGCAGTCTGCCCTGGTGTCCAACCTTTATGTTCATCTCCCAAATGCTCTCAGCTCGCTTCAGTGG
CAACTTGCTGGTCAGCCTGCTGGGCACCTGGTGGACACGTCTTCTGGGGGCCCCAGCACGTGCTTATCCAGTTGG
TGGCCTTTTGCTATTACCTGTCCCCTCCAGAATCTTTTGGCTCCGTGTTAGAAGACCCGGTCCATGCAGTTGTATA
CATAGTGTTTCATGCTGGGCTCCTGTGCATTCTTCTCCAAAACGTGGATTGAGGTCTCAGGTTCCCTCTGCCAAGA
TGTTGCAAAGCAGCTGAAGGAGCAGCAGATGGTGATGAGAGGCCACCGAGAGACCTCCATGGTCCATGAACCTCAA
CCGGTACATCCCCACAGCCGCGGCCCTTTGGTGGGCTGTGCATCGGGGCCCTCTCGGTCCCTGGCTGACTTCTCAGG
CGCCATTGGGTCTGGAACCGGGATCCTGCTCGCAGTCACAATCATCTACCAGTACTTTGAGATCTTCTGTTAAGGA
GCAAAGCGAGGTTGGCAGCATGGGGGCCCTGCTCTTCTGAGCCCGTCTCCCGACAGGTTGAGGAAGCTGCTCCA
GAAGCGCCTCGGAAGGGGAGCTCTCATCATGGCGCGTGTGCTGCGGCATATGGACTTTTAATAATGTTTTTGAA
TTTCGTATTCTTTCACTTCCACTGTGTAAAGTGCTAGACATTTTCCAATTTAAATTTTGCTTTTTATCCTGGCAC
TGGCAAAAAGAACTGTGAAAGTGAAATTTTATTACGCCGACTGCCAGAGAAGTGGGAATGGTATAGGATTGTCCC
CAAGTGTCATGTAACCTTTTGTTTTAACTTTTGACCTTCTCAGTGTGTATGCGGCTGCAGCCGTCTCACCTGT
TTCCCCACAAAGGGAATTTCTCACTCTGGTTGGAAGCACAAACACTGAAATGTCTACGTTTCATTTTGGCAGTAG
GGTGTGAAGCTGGGAGCAGATCATGTATTTCCCGGAGACGTGGGACCTTGCTGGCATGTCTCCTTCACAATCAGG
CGTGGGAATATCTGGCTTAGGACTGTTTCTCTCTAAGACACCATGTTTTCCCTTATTTTAAAGTGATTTTTTT
AAGGACAGAACTTCTTCCAAAAGAGAGGGATGGCTTTCCAGAAGACACTCCTGGCCATCTGTGGATTGTCTGT
GCACCTATTGGCTCTTCTAGCTGACTCTTCTGGTTGGGCTTAGAGTCTGCCTGTTTCTGCTAGCTCCGTGTTAG
TCCACTTGGGTATCAGCTCTGCCAAGCTGAGCCTGGCCAAGCTAGGTGGACAGACCCTTGCAGTGATGTCCGTT
TGTCCAGATTCTGCCAGTCATCACTGGACACGTCTCCTCGCAGCTGCCCTAGCAAGGGGAGACATTGTGGTAGCT
ATCAGACATGGACAGAACTGACTTAGTGCTCACAAGCCCCTACACCTTCTGGGCTGAAGATCACCCAGCTGTGT
TCAGAATTTTCTTACTGTGCTTAGGACTGCACGCAAGTGAGCAGACACCACCGACTTCCTTTCTGCGTCACCAGT
GTCGTACAGCAGAGAGAGGACAGCACAGGCTCAAGGTTGGTAGTGAAGTCAGGTTTCGGGTGCATGGGCTGTGGTG
GTGTTGATCAGTTGCTCCAGTGTTTGAATAAGAAGACTCATGTTTATGTCTGGAATAAGTTCTGTTTGTGCTGA
CAGGTGGCCTAGGTCTGGAGATGAGCACCTCTCTCTGGCCTTTAGGGAGTCCCCTCTTAGGACAGGCACTGCC
CAGCAGCAAGGGCAGCAGAGTTGGGTGCTAAGATCCTGAGGAGCTCGAGGTTTCAGCTGGCTTTAGACATTGGT
GGGACCAAGGATGTTTTCAGGATGCCCTGATCCTAAGAAGGGGGCCTGGGGGTGCGTGCAGCCTGTCCGGGAGA
CCCCACTCTGACAGTGGGCACACGGCAGCCTGCAAAGCACAGGGCCACCGCCACAGCCCGGCAGAGGGGCACACT
CTGGAGACCTTGCTGGCAGTGCTAGCCAGGAACAGAGTGACCAAGGGACAAGAAGGGACTTGCCCTAAAGCCACC
CAGCAACTCAGCAGCAGAACCAAGATGGGCCCCAGGCTCCTCCATATGGCCCAGGGCTTACCACCTATCACACG
TGGCCTTGCTAGACCCAGTCTGAGCAGGGGAGAGGCTCTTGAGACCTGATGCCCTCTACCCACATGGTTCTC
CCACTGCCCTGTCTGCTCTGCTGTACAGAGGGGAGGGCCTCCCCAGCCCACGCTTAGGAATGCTTGCCCTCTG
GCAGGCAGGCAGCTGTACCAAGCTGGTGGGCAGGGGGCTGGAAGGCACACAGGCTCAGGAGGAGCCCCATAGTC
CCGCTGACGCTGTAAACATCGGCTGGGCCCTGCAAGGCCACACTCACGCCCTGTGGGTGATGGTCACGGTGG
GTGGGTGGGGGCTGACCCAGCTTCCAGGGGACTGTCACTGTGGACGCCAAAATGGCATAACTGAGATAAGGTGA

1331/6881
FIGURE 1238B

ATAAGTGACAAATAAAGCCAGTTTTTACAAGTAAAAAAAAAAAAAAAAAAAAA

1332/6881
FIGURE 1239

MAIKFLEVIKPFVCVILPEIQKPERKIQFKEKVLWTAITLFIIFLVCCQIPLFGIMSSDSADPFYWMRVILASNRGT
LMELGISPIVTSGLIMQLLAGAKIIEVGDTPKDRALFNGAQKLFGMIITIGQSIVYVMTGMYGDPSEMGAGICLL
ITIQLFVAGLIVLLLDELLQKGYGLGSGISLFIATNICETIVWKAFSPTTVNTGRGMEFEGAIIALFHLLATRTD
KVRALREAFYRQNLPLNMNLIATIFVFAVVIYFQGFRVDLPIKSARYRGQYNTYPIKLFYTSNIPILQSALVSN
LYVISQMLSARFSGNLLVSLGTSWSDTSSGGPARAYPVGGLCYYLSPPEFSGSVLEDPVHAVVYIVFMLGSCAFF
SKTWIEVSGSSAKDVAKQLKEQQMVMRGHRETSMVHELNRYIPTAAAFGGLCIGALSVLADFLGAIGSGTGILLA
VTIIYQYFEIFVKEQSEVGSMGALLF

1333/6881
FIGURE 1240

ATGAAGATTGAGGAGGTGAAGAGCACTACGAAGACGCAGCGCATCGCCTCCACAGCCACGTGAAAAGGGCTGGGG
CTGGACGAGAGCGGCTTGGCCAAGCAGGCGGGCTCAGGGCTTGTGGGCCAGGAGAACGCGCGAGAGGTGTGGCCA
GTGGACCAGGGAGTTGGGGGCTGCAAGCAGGGCTGCTGCGGCGAGAGAGCTGCTGAAGTCGGGCCTGCAGGTGCT
CCAGGTGAGCGGGCGACTTTGGCCGCTGCAGAGACCGAGATACGCGGGGTAACAGCCCGTTCCGGAGCCGGTTCAT
CAGGCGCCAAGCCCCGCTGGGCTCCTCGCAGCCGCGGGACCTTCTCCGCCCTTCCCGAGGCTGAGTTTCTGAA
CGGGAAGCTGCCGGCCCGGGGGCAGCCGGGAGCAGCCAGGGCGTGAGGACGTGGGTTCCTCGTCACCCCCGGCTT
GGAACAGCAGCGCCGCAACAACCGCTGGCGTTCATCGAGCCTCTCAGCAGCCCTGCGAGGCGATCCCGGGGAGAA
TCCCACGCCACAGCCGAGGAACTGAGGCAGGCAGGGTGACACACAGCCAGTAGTGGCGGGCGGGCGCCAGGC
TGCCACCGCGCTGAGGACCGGGCCCTCTGCCAGCCGGGAGGCGTGGGGCAGGACAGCCGCGCTCTCGCCAGGGCC
CAGAGCCCCACTTTGCCAAGGAGCTGTCGCTGGAGCGGTGACTTTGTTTCAGGGCCGAGAACCGGAGGAGGAGGCC
AGACTTGCTGCTGGGCAGCTGGCACATGGGACATGGGGTGTTATGACTCCAGCATTATGGAGCGCCTGCTGTGT
GCTCTGCAGGTGAGCAATGTGAGGCTCAGAGAAGAGAAACAGAAAGCCCGGAGGCTTGAGTGGGTGAGACACCCA
TCAGGAGCTTGGCATGAGTATGACAGCTCCTTGACGCAAAGTCCAGGGGGCAIGAGTGCTGGGGCCATTGCAGGC
ACCAGGACCCAAGCCTAG

1334/6881
FIGURE 1241

MVDRLRPVKFFLLMGQPEAQGGPGPAGAPGQRATLAAAETEIRGVTARSGAGHQAPSPAGLLAAAGPFSALPEAE
FPEREAAAGPRGSREQPGREDVGSRHPRLGTAAPQQPLAFIEPLSSPARRSRGESHATAEETEAGRVTHSPVVAGG
RPGCHRAEDRPLCQPGGVGQDSRALARAQSPILPRSCRWSGDFVQGREPEEEARLAAGQLAHGTWGVMTPAFMER
LLCALQVSNVRLREEKQKARLEWVRHP SGAWHEYDSSLTQSPGGMSAGAIAGTRTQA

1335/6881
FIGURE 1242

AGGTAAAGGGAGAAGATGAGGAAGAGAAACAATTTGGAAGTACGTGAAACCAAATTAAGGGTAAAAGTGGGAGAT
TCTTCACAGTCAAGCTCCCAGTTGCTCTTGATCCTGGGGCCAAGATTTTCAGTCATTGTGGAAACAGTCTACACCC
ATGTGCTTCATCCATATCCAACCCAGATCACCCAGTCAGAGAAACAGTTTGTGGTGTGGAGGGGAACCATATT
TCTACTCTCCCTATCCAACGAAGACACAAACCATGCGTGTGAAGCTTGCCTCTCGAAATGTGGAGAGCTACACCA
AGCTGGGGAACCCACGCGCTCTGAGGACCTACTGGATTATGGGCCTTTCAGAGATGTGCCTGCCTATAGTCAGG
ATACTTTTAAAGTACATTATGAGAACAACAGCCCTTTCCTGACCATCACCCAGCATGACCCGAGTCATTGAAGTCT
CTCACTGGGGTAATATTGCTGTGGAAGAAAATGTGGACTTAAAGCACACAGGAGCTGTGCTTAAGGGGCCTTCT
CACGCTATGATTACCAGAGACAGCCAGATAGTGGAAATCCTCCATCCGTTCTTTTAAGACCATCCTTCCTGCTG
CTGCCCAGGATGTTTATTACCGGGATGAGATTGGCAATGTTTCTACCAGCCACCTCCTTATTTGGATGACTCTG
TAGAGATGGAAATCCGGCCTCGCTTCCCTCTCTTTGGCGGGTGAAGACCCATTACATCGTTGGCTACAACCTCC
CAAGCTATGAGTACCTCTATAATTTGGGTGACCAGTATGCACITGAAGATGAGGTTTGTGGACCATGTGTTTGATG
AACAAGTGATAGATTCTCTGACTGTGAAGATCATCCTGCCTGAAGGAGCCAAGAACATTGAAATTGATAGTCCCT
ATGAAATCAGCCGTGCCCCAGATGAGCTGCACTACACCTATCTGGATACATTTGGCCGCCCTGTGATTGTGCCT
ACAAGAAAAATCTGGTAGAACAGCACATTGAGGACATTGTGGTCCACTACACGTTCAACAAGGTGCTCATGTGC
AGGAGCCCCTGCTGGTGGTGGCGGCCTTCTACATCCTGTCTTACCCTTATCATCTATGTTGGGCTGGACTTCT
CCATCACCAAGGATCCAGCCGAGAGCCAGGATGAAGGTAGCCTGCATCACAGAGCAGGTCTTGACCCTGGTCA
ACAAGAGAATAGGCCTTTACCGTCACTTTGACGAGACCGTCAATAGGTACAAGCAATCCCGGGACATCTCCACCC
TCAACAGTGGCAAGAAGAGCCTGGAGACTGAACACAAGGCCTTGACCAGTGAGATTGCACTGCTGCAGTCCAGGC
TGAAGACAGAGGGCTCTGATCTGTGCGACAGAGTGAGCGAAATGCAGAAGCTGGATGCACAGGTCAAGGAGCTGG
TGCTGAAGTCGGCGGTGGAGGCTGAGCGCCTGGTGGCTGGCAAGCTCAAGAAAGACACGTACATTGAGAATGAGA
AGCTCATCTCAGGAAAGCGCCAGGAGCTGGTCACCAAGATCGACCACATCCTGGATGCCCTGTAGCCCCCTGCCCG
CATCTCCAGGGGGCCAGGGTGCCTGCACTTTGCTGTGGCAGGCAGATTGGGTGGTAGTGGGAGGTTGTGCATG
GAGGCCAGTGAAAGCTGACATCTGTAAAAGGCCTTCAAGGAAGAGAAACCAGGCCCTGCGTCAGGCAGTGTGAGT
TTGCCGTTTGTCTTAACTTCTTTTTTTTTTTTTTTTTTAAAAAAGAAAACCTTAAAAAACTCCATTAAAAACA
AAACATCTTTGTGTTTTGAACAAAGGAATTTTCAATATTGATTGGTATTCTGTTCTGAAGTCTAGGATATTTT
CAGCCTATAAAGCCCCCTGTTTTATGCCCTTCTAATTCTGATGTTTGGGTATTGTGTGAGTGCATGTGTTTTTT
TTTTTTTTTTTTTAAAGCGTGTGTGAACAAATGGAATAAAGCAGGGACTGTG

1336/6881
FIGURE 1243

CTGCTCTTCCCGGTTCATGGAGGCGCCAGCCGCGGCTTGTTTCTGCTCCTGTTGCTTGGGACTTGGGCCCCGGCG
CCGGGCAGCGCCTCCTCCGAGGCACCGCCGCTGATCAATGAGGACGTGAAGCGCACAGTGGACCTAAGCAGCCAC
CTGGCTAAGGTGACGGCCGAGGTGGTCCTGGCGCACCTGGGCGGCGGCTCCACGTCCCAGCTACCTCTTTCTTG
CTGGCTTTGGAGCCTGAGCTCGAGGCCCCGGCTGGCGCACCTGGGCGTGCAGGTAAAGGGAGAAGATGAGGAAGAG
AACAATTTGGAAGTACGTGAAACAAAATTAAGGGTAAAGTGGGAGATTCTTCACAGTCAAGCTCCCAGTTGCT
CTTGATCCTGGGGCCAAGATTTAGTCAATTGTGAAACAGTCTACACCCATGTGCTTCATCCGTATCCAACCCAG
ATCACCAGTCAGAGAAACAGTTTGTGGTGTGAGGGGAACCATTATTTCTACTCTCCCTATCCAACGAAGACA
CAAACCATGCGTGTGAAGCTTGCCTCTCGAAATGTGGAGAGCTACACCAAGCTGGGGAACCCACGCGCTCTGAG
GACCTACTGGATTATGGGCCTTTAGAGATGTGCCTGCCTATAGTCAGGATACTTTAAAGTACATTATGAGAAC
AACAGCCCTTTCTGACCATCACCAGCATGACCCGAGTCATTGAAGTCTCTCACTGGGGTAATATTGCTGTGGAA
GAAATGTGGACTTAAAGCACACAGGAGCTGTGCTTAAGGGGCTTTCTCACGCTATGATTACCAGAGACAGCCA
GATAGTGAATATCCTCCATCCGTTCTTTTAAGACCATCCTTCCTGCTGCTGCCAGGAIGTTTTATTACCGGGAT
GAGATTGGCAATGTTTTCTACCAGCCACCTCCTTATTTTGGATGACTCTGTAGAGATGGAAATCCGGCCTCGCTTC
CCTCTCTTTGGCGGGTGGAAAGACCCATTACATCGTTGGCTACAACCTCCCAAGCTATGAGTACCTCTATAATTTG
GGTGACCAGTATGCACTGAAGATGAGGTTTGTGGACCATGTGTTTGATGAACAAGTGATAGATTCTCTGACTGTG
AAGATCATCCTGCCTGAAGGAGCCAAGAACATTGAAATTGATAGTCCCTATGAAATCAGCCGTGCCCCAGATGAG
CTGCACTACACCTATCTGGACACATTTGGCCGCCCTGTGATTGTTGCCTACAAGAAAAATCTGGTAGAACAGCAC
ATTGAGGACATTGTGGTCCACTACACGTTCAACAAGGTGCTCATGCTGCAGGAGCCCCCTGCTGGTGGTGGCGGCC
TTCTACATCCTGTTCTTCACCGTTATCATCTATGTTTCGGCTGGACTTCTCCATCACCAAGGATCCAGCCGCAGAA
GCCAGGATGAAGGTAGCCTGCATCACAGAGCAGGTCTTGACCTGGTCAACAAGAGAATAGGCCTTTACCGTCAC
TTTGACGAGACCGTCAATAGGTACAAGCAATCCCGGGACATCTCCACCCTCAACAGTGGCAAGAAGAGCCTGGAG
ACTGAACACAAGGCCTTGACCAGTGAGATTGCACTGCTGCAGTCCAGGCTGAAGACAGAGGGCTCTGATCTGTGC
GACAGAGTGAGCGAAATGCAGAAGCTGGATGCACAGGTCAAGGAGCTGGTGTGTAAGTCGGCGGTGGAGGCTGAG
CGCCTGGTGGCTGGCAAGCTCAAGAAAGACACGTACATTGAGAATGAGAAGCTCATCTCAGGAAAGCGCCAGGAG
CTGGTCACCAAGATCGACCACATCCTGGATGCCCTGTAGCCCCCTGCCCGCATCCTCCAGGGGGCCAGGGTGCCT
GCACCTTGCTGTGGCAGGCAGATTGGGTGGTAGTGGGAGGTTGTGCATGGAGGCCAGTGAAAGCTGACATCTGTA
AAAGGCCTTCAAGGAAGAGAAAACAGGCCCTGCGTCAGGCAGTGTGAGTTTGCCGTTTGTCTTAACTTTCTTTT
TTTTTTTTTTTTAAAAAAGAAAACCTTTAAAAAACTCCCATTA AAAACAAAACATCTTTGTGTTTTGAACAAAGG
AATTTTCAATATTTGATTGGTATTCTGTTCTGAAGTCTAAGATATTTTTCAGCCTATAAAGCCCCCTGTTTTATG
CCCTTCTAATTCTGATGTTTGGGTATTGTGTGAGTGCATGTGTTTTTTTTTTTTTTTTTAAAGCGTGTGTAACA
AATGGAATAAAGCAGGGACTGTG

1337/6881
FIGURE 1244

GTGAGCGCCAGGAAGGTAGCGAGGCCAGCGTCGCCCCGGGACTCGCTGCTCAAGTCTGTCTATTGCCTGCCGCCA
CATCCATCCTAGCAGGGCCCCGTCGCCCCACCAGGCGGACAAAAGCGGTCCGCTGAACACCATGCGGGCCGCTCGGC
GTGCCGCCCAGGCTCTGCTGGTGAAGCGCCGCCACCCCGCGCCAGGTCCCGCGAGCCCGCCTGCCGCGCACCTCG
CCCTGCTCCCAGCTCTACTCCAGGCCCGTCCGCCCCGGGGCGCCGCCACCGCGCCTCGCTCGGGCCGTTGCCG
TCTGCACCCAGACCCTGAGCCGCCGCCGCCGATGGAGGTGGCGCCCGAGCAGCCGCGCTGGATGGCGCACCC
GGCCGTGCTGAATGCGCAGCACCCCGACTCACACCACCCGGGCTGGCGCACAACTACATGGAACCCGCGCAGCT
GCTGCCTCCAGACGAGGTGGACGTCTTCTCAATCACCTCGACTCGCAGGGCAACCCCTACTATGCCAACCCCGC
TCACGCGCGGGCGCGCTCTCTACAGCCCCGCGCAGCCCGCTGACCGGAGGCCAGATGTGCCGCCACACTTG
TTGCACAGCCCCGGTTTGGCCTGGCTGGACGGGGGCAAAGCAGCCCTCTCTGCCGCTGCGGGCCACCACACAAC
CCCTGGACCGTGAGCCCCCTCTCCAAGACGCCACTGCACCCCTCAGCTGCTGGAGGCCCTGGAGGCCACTCTCT
GTGTACCCAGGGGCTGGGGGTGGGAGCGGGGAGGCAGCGGGAGCTCAGTGGCCTCCCTCACCCCTACAGCAGCC
CACTCTGGCTCCCACCTTTTCGGCTTCCACCCACGCCACCCAAAGAAGTGTCTCTGACCCTAGCACCACGGGG
GCTGCGTCTCCAGCCTCATCTTCCGCGGGGGGTAGTGCAGCCCGAGGAGAGGACAAGGACGGCGTCAAGTACCAG
GTGTCACTGACGGAGAGCATGAAGATGGAAGTGGCAGTCCCTGCGCCCAGGCCCTAGCTACTATGGGCACCCAG
CCTGCTACACACCACCCATCCCCACCTACCCCTCCTATGTGCCGGCGGCTGCCACGACTACAGCAGCGGACTC
TTCCACCCCGGAGGCTTCTCTGGGGGACCGGCTCCAGCTTACCCCTAAGCAGCGCAGCAAGGCTCGTTCCTGT
TCAGAAGGCCGGGAGTGTGTCAACTGTGGGGCCACAGCCACCCCTCTCTGGCGCGGGACGGCACCGGCCACTAC
CTGTGCAATGCCTGTGGCCTTACCACAAGATGAATGGGCAGAACCGACCACTCATCAAGCCCAAGCGAAGACTG
TCGGCCGCCAGAAGAGCCGGCACCTGTTGTGCAAAATTGTGACGACAACCACCACCTTATGGCGCCGAACGCC
AACGGGGACCCCTGTCTGCAACGCTGTGGCCTCTACTACAAGCTGCACAATGTTAACAGGCCACTGACCATGAAG
AAGGAAGGGATCCAGACTCGGAACCGGAAGATGTCCAACAAGTCCAAGAAGAGCAAGAAAGGGGCGGAGTGTTC
GAGGAGCTGTCAAAGTGATGCAAGGAGAAGTCAATCCCCCTTCAGTGCAGCTGCCCTGGCTGGACACATGGCCTT
GTGGGCCACCTCCCGCCCTTCAGCCACTCCGGACACATCCTGCCCACTCCGACGCCCATCCACCCCTCCTCCAGC
CTCTCCTTCGGCCACCCCAACCCGTCCAGCATGGTGACCGCCATGGGCTAGGGAACAGATGGACGTGAGGACCG
GGCACTCCCGGGATGGGTGGACCAACCCCTTAGCAGCCAGCATTTCGGAAGGCCGACACCACTCCTGCCAGCC
CGGCTCGGCCAGCACCCCTCTCCTGGAGGGCGCCAGCAGCCTGCCAGCAGTTACTGTGAATGTTCCCAACCG
CTGAGAGGCTGCCTCCGCACCTGACCGCTGCCAGGTGGGGTTTCTGTCATGGACAGTTGTTTGGAGAACAACAA
GGACAACCTTTATGTAGAGAAAAGGAGGGGACGGGACAGACGAAGGCAACCATTTTTAGAAGGAAAAAGGATTAGG
CAAAAATAATTTATTTTGTCTTGTCTTAACAAGGACTTGGAGACTTGGTGGTCTGAGCTGTCCCAAGTCCCTCC
GGTTCTTCTCGGGATTGGCGGGTCCACTTGCCAGGGCTCTGGGGGCAGATTTGTGGGGACCTCAGCCTGCACCC
TCTTCTCCTCTGGCTTCCCTCTCTGAAATAGCCGAATCCAGGCTGGGCTGAGCCAAAGCCAGAGTGGCCACGGC
CCAGGGAGGGTGAGCTGGTGCCCTGCTTTGACGGGCCAGGCCCTGGAGGGCAGAGACAATCACGGGCGGTCTGCA
CAGATTCCAGGCCAGGGCTGGGTACAGGAAGGAAACAACATTTTCTGAAAGGGGAAACGTCTCCAGATCGC
TCCCTTGGCTTTGAGGCCGAAGCTGCTGTGACTGTGTCCCTTACTGAGCGCAAGCCACAGCCTGTCTTGTGAGG
TGGACCCTGTAAATACATCCTTTTTCTGTAAACCTTCAACCCCTCGCCTACTACTCTGAGAC

1338/6881
FIGURE 1245

GTCAAAGTGCATGCAGGAGAAGTCATCCCCCTTCAGTGCAGCTGCCCTGGCTGGACACATGGCACCTGTGGGCCA
CCTCCCGCCCTTCAGCCACTCCGGACACATCCTGCCCACTCCGACGCCCATCCACCCCTCCTCCAGCCTCTCCTT
CGGCCACCCCAACCGTCCAGCATGGTGACCGCCATGGGCTAGGGAACAGATGGACGTCGAGGACCGGGCACTCC
CGGGATGGGTGGACAAACCTTAGCAGCCCAGCATTTCCCGAAGGCCGACACCACTCCTGCCAGCCCGGCTCGA
CCCAGGGAGAGGCTGTGTCCCTGCTGGGGTCTCAGGTCCAGCTTTACTGTGGCTGTCTGGATCCTTCCCAAGGTA
CAGCTGTATATAAACGTGTCCCGAGCTTAGATTCTGTATGCGGTGACGGCGGGGTGTGGTGGCCTGTGAGGGGCC
CCTGCCCCAGGAGGAGGATTGTGCTGATGTAGTGACCAAGTGCAATATGGGCGGGCAGTCGCTGCAGGGAGCACC
ACGGCCAGAAGTAACTTATTTGTACTAGTGTCCGCATAAGAAAAAGAATCGGCAGTAT

1339/6881
FIGURE 1246

GGCACGAGGATAAAGCCTGAGGCGGCGGCAGCGGCGGAGTTGGCGGCTTGGAGAGCTCGGGAGAGTTCCTTGAA
CCAGAACTTGGACCTTCTCGCTTCTGTCCTCCGTTTAGTCTCCTCCTCGGCGGGAGCCCTCGCGACGCGCCCGGC
CCGGAGCCCCCAGCGCAGCGGCGCGGTTTGAAGGATGACCTCTAGGAAGAAAGTGTGCTGAAGGTTATCATCCT
GGGAGATTCTGGAGTCGGGAAGACATCACTCATGAACCAGTATGTGAATAAGAAATTCAGCAATCAGTACAAAGC
CACAATAGGAGCTGACTTTCTGACCAAGGAGGTGATGGTGGATGACAGGCTAGTCACAATGCAGATATGGGACAC
AGCAGGACAGGAACGGTTCCAGTCTCTCGGTGTGGCCTTCTACAGAGGTGCAGACTGCTGCGTTCTGGTATTGTA
TGTGACTGCCCCCAACACATTCAAAACCCTAGATAGCTGGAGAGATGAGTTTCTCATCCAGGCCAGTCCCCGAGA
TCCTGAAAACCTTCCCATTTGTTGTGTTGGGAAACAAGATTGACCTCGAAAACAGACAAGTGGCCACAAAGCGGGC
ACAGGCCTGGTGTACAGCAAAAACAACATTCCCTACTTTGAGACCAGTGCCAAGGAGGCCATCAACGTGGAGCA
GGCGTTCCAGACGATTGCACGGAATGCACCTTAAGCAGGAAACGGAGGTGGAGCTGTACAACGAATTTCTGAAAC
TATCAAACCTGGACAAGAATGACCGGGCCAAGGCCTCGGCAGAAAGCTGCAGTTGCTGAGGGGGCAGTGAGAGTTG
AGCACAGAGTCCTTCACAAACCAAGAACACACGCTAGGCCTTCAACACAATTCCCCTCTCCTCTTCCAAACAAAAC
ATACATTGATCTCTCACATCCAGCTGCCAAAAGAAAACCCCATCAAACACAGTTACACCCACATATCTCGCACA
CACACACACACACGCACACACACACACAGATCTGACGTAATCAAACCTCCAGCCCTTGCCCGTGATGGCTCCTT
GGGGTCTGCCTGCCACCCACATGAGCCCGCAGTATGGCAGCAGGACAAGCCAGCGGTGGAAGTCATTCTGATA
TGGAGTTGGCATTGGAAGCTTATTCTTTTGTTCCTGAGAGAGAGAGAACTGTTTACAGTTAACTCTGTGTCTA
ATTATCTGATTTTTTTTATTGGTCTTGTGGTCTTTTTACCCCCCTTTCCCTCCCTCCTTGAAGGCTACCCCTT
GGGAAGGCTGGTGCCCCATGCCCCATTACAGGCTCACACCCAGTCTGATCAGGCTGAGTTTGTATGTATCTATC
TGTTAATGCTTGTACTTTTAACTAATCAGATCTTTTACAGTATCCATTTATTATGTAATGCTTCTTAGAAAAG
AATCTTATAGTACATGTTAATATATGCAACCAATTAAATGTATAAATTAGTGTAACAAAAAAAAAAAAAAAAA

1340/6881
FIGURE 1247

MSFSSRPVPEILKTSHELLCWETRLTSKTDKWPQSGHRPGATAKTTFTLRPVRRPSTWSRRSRRLHGMHLSRKR
RWSCTTNFLNLSNWTRMTGPRPRQKAAVAEGAVRVEHRLHVKPRTHVGLQHNSPLLFTKHTLISHIQLPKENPI
KHSYTPHISHTHTHTHTHRSQVIKLQPLPVMAPWGLPAHPHEPASMAAGQASGGSHSDMELALEAYSFCSLER
ERTVYS

1341/6881
FIGURE 1248

AGAATCTTCAGTTTCTGTGAGCGTCCGCTTCGTCTGGGCACTTCCGGTACTCCCATTTCAGTTCCGGTCCCTGTCT
TTTACGTTTCCGGCAAAACATCAGTGTCTGTGGGTAGTTGGAATCTTCAGTTCCGTGTGAGCGTCCGGCGTCTTCTG
GGCCTGTGGAGTTTCTTGGACAGGGGCCGCGGGGCTCCAGGACGGCGCCCTTAGCGACACCATGGCCCCGAAATGC
AGAAAAGGCCATGACGGCCTTAGCAAGATTTCCGCCAGGCTCAGCTGGAAGAGGGAAAAGTGAAGGAACGAAGACC
CTTTCTGGCCTCAGAATGTACTGAACTGCCTAAAGCTGAGAAGTGGAGACGACAGATCATTGGAGAGATCTCTAA
AAAAGTGGCTCAGATTGAGAATGCTGGTTTAGGTGAATTCGAATTCGTGACCTGAATGATGAAATTAACAAGCT
GCTAAGGGAGAAAGGACACTGGGAGGTCCGGATAAAGGAGCTGGGAGGTCCGTGATTATGGAAAAGTTGGCCCTAA
AATGCTGGATCATGAAGGAAAAGAAGTCCCAGGAAACCGAGGTTACAAGTACTTTGGAGCAGCAAAAGATTGCCC
TGGTGTTAGAGAGCTGTTTGAAAAAGAACCTCTTCCTCCTCCCAGAAAGACACGTGCTGAGCTCATGAAGGCAAT
CGATTTTGAGTACTATGGTTACCTAGATGAAGATGATGGTGTTATTGTGCCTTTGGAACAGGAATATGAAAAGAA
ACTCAGAGCCGAGTTAGTGGAAAAGTGGAAAGCAGAGAGAGAGGCTCGGCTGGCAAGAGGAGAAAAGGAAGAGGA
GGAGGAAGAGGAGGAAGAGATCAACATCTATGCAGTCACCGAGGAGGAGTCGGACGAGGAAGGCAGCCAGGAGAA
AGGAGGGGACGACAGCCAGCAGAAGTTCATTGCTCACGTCCCTGTTCCCTCGCAGCAAGAGATTGAGGAGGCACT
GGTGCGAAGGAAGAAAATGGAACCTCCAGAAGTATGCAAGCGAGACCCCTGCAGGCCCCAAGTGAAGAAGCCAG
AAGGCTCCTGGGGTATTAGGACCCAGCTGGGGCTCTCCTTGGAGTTCTTCCATCCCCCAGTGGTACCTCAGGACC
CAGGGCTGCAGACACAGGCTGGTGCTGCAAGGGCTCCTGCCCCATTCTCAGCCTTCCTTCCCTCTCCTTGICTCA
TGTTGACCGGAGGGTAGGGGTCTGTCCCTGGTCTTCCCTGGTAGGTTTTGTACACATATTTTGCTACTGTGTGGAT
CCATTTATTTTTATTGTGGAGTGTATACAACAGGTTGCGAACTGGCTGCCTGTGTCTTATTTTGACTTGCACTGC
CATTTTGAGGGGAGAAGAATCAATTAGTGGCAAACATTTAAAAATGCAATTTTTTGAGACCAAAGTATAATTTT
AAAAATGCAATTTTCTAAAAGACACATCTTTGAAAAATGAGATGATGTGGCCAGGCGCAGTGGCTCACGCCT
GTAACCCAGCACTTTGGGAGGCCGAGCGGGCGGGTCACGAGGTCAAGAGATGGAGACCATCCTGGCCAACATG
GTGAAACCCCATGTCTACTAAAAATACAAAAAATTAGCTGGGCGTACTGGCATGCACCTGTAGTCCCAGCTGCT
TGGGAGGCTGAGGCAGGAGAATCACTTGAACCCGAGAGGTGGAGGTTGAAGTGAGCCAAGATCGTGCCATTGCAC
TCCAGCCTGGCGACAGAGTGAGACTCTGTCCCACAAAAAAAAAAAAAAAAA

1342/6881
FIGURE 1249

MARNAEKAMTALARFRQAQLEEGKVKERRPFLASECTELPKAEKWRRQIIGEISKKVAQIQNAGLGEFRIDLND
EINKLLREKGHWEVRIKELGGPDYGVGPKMLDHEGKEVPGNRGYKYFGAAKDLPGVRELFEKEPLPPPRKTRAE
LMKAIDFEYYGYLDEDDGVIVPLEQEYEKKLRAELVEKWKAEREARLARGEKEEEEEEEEEINIYAVTEESDEE
GSQEKGGDSQQKFIAHVPVPSQQEIEEALVRRKKMELLQKYASETLOAQSEEARRLLGY

1343/6881

FIGURE 1250

GAATTCCAAACAGCCTCTACCTTGCGAGCCGCTCTTCCCCAGGCCTGCGTCCGAGTCTCCGCCGCTGCGGGCCCCGC
TCCGACGCGGAAGATCTGACTGCAGCCATGAGCAGCAATGAGTGCTTCAAGTGTGGACGATCTGGCCACTGGGCC
CGGGAATGTCTACTGGTGGAGGCCGTGGTCGTGGAATGAGAAGCCGTGGCAGAGGTGGTTTTACCTCGGATAGA
GGTTTCCAGTTTGTTCCTCGTCTCTTCCAGATATTTGTTATCGCTGTGGTGAGTCTGGTCATCTTGCCAAGGAT
TGTGATCTTCAGGAGGATGCCTGCTATAACTGCGGTAGAGGTGGCCACATTGCCAAGGACTGCAAGGAGCCCCAAG
AGAGAGCGAGAGCAATGCTGCTACAACGTGGCAAACCAGGCCATCTGGCTCGTGACTGCGACCATGCAGATGAG
CAGAAATGCTATTCTTGTGGAGAATTTCGGACACATTCAAAAAGACTGCACCAAAGTGAAGTGCTATAGGTGTGGT
GAAACTGGTCATGTAGCCATCAACTGCAGCAAGACAAGTGAAGTCAACTGTTACCGCTGTGGCGAGTCAGGGCAC
CTTGACGCGGAATGCACAATTGAGGCTACAGCCTAATTATTTTCTTTGTGCCCCCTCCTTTTTCTGATTGATGG
TTGTATTATTTTCTCTGAATCCTCTTCACTGGCCAAAGGTTGGCAGATAGAGGCAACTCCCAGGCCAGTGAGCTT
TACTTGCCGTGTAAAAGGAGGAAAGGGGTGGAAAAAACCGACTTTCTGCATTAACTACAAAAAAGTTTATGT
TTAGTTTGGTAGAGGTGTTATGTATAATGCTTTGTTAAAGAACCCCTTTCCGTGCCACTGGTGAATAGGGATTG
ATGAATGGGAAGAGTTGAGTCAGACCAGTAAGCCCGTCTGGGTTCTTGAACATGTTCCCATGTAGGAGGTAAA
ACCAATTCTGGAAGTGTCTATGAACCTCCATAAATAACTTTAATTTTAGTATAATGATGGTCTTGGATTGTCTGA
CCTCAGTAGCTATTAAATAACATCAAGTAACATCTGTATCAGGCCCTACATAGAACATACAGTTGAGTGGGAGTA
AACAAAAAGATAAACATGCGTGTTAATGGCTGTTTCGAGAGAAATCGGAATAAAAGCCTAAACAGGAACAACCTCA
TCACAGTGTTGATGTTGGACACATAGATGGTGATGGCAAAGGTTTAGAACACATTATTTTCAAAGACTAAATCTA
AAACCCAGAGTAAACATCAATGCTCAGAGTTAGCATAATTTGGAGCTATTCAGGAATTGCAGAGAAATGCATTTT
CACAGAAATCAAGATGTTATTTTGTATACTATATCACTTAGACAACGTGTTTCATTGCTGTAATCAGTTTTT
AAAAGTCAGATGGAAGAGCAACTGAAGTCCTAGAAAATAGAAATGTAATTTTAAACTATTCCAATAAAGCTGGA

1344/6881
FIGURE 1251

MSSNECFKCGRSGHWARECPTGGGRGRGMRSRGRGGFTSDRGFQFVSSSLPDICYRCGESGHLAKDCDLQEDACY
NCGRGGHIAKDCKEPKREREQCCYNCGKPGHLARDCDHADEQKCYSCGEFGHIQKDCTKVKCYRCGETGHVAINC
SKTSEVNCYRCGESGHLARECTIEATA

1345/6881
FIGURE 1252

CATGGCTGCCCTCAGATCCCTTGTGAAGCCCAAGATCGTCAAAAAGAGAACCAAGAAATTCATCCGGCACCAGTC
AGACCGATATGTCAAAATCAAGATGAGAAGAATAATGTCTGGGGTGAAGGTGAAGCACCCAGCCCAAGACTCAGC
AGCCAGGAAGTGGCCAGCGCTCTTTATACCACGGGTGCAGGAATTCACACAGAAAAGTGGAGGCCAAGGCGTGA
GAATTCCTCAATGACTGCCCTCTAAAGGAAGAGGACCAGGCTTCCTGTCTAGAGACTGAGGACCCAGGAAGAAACA
TGTCTCGGGCCCTGTCCCCCTCCACAATTCAGAGGCCACATTCTAACAGGGGAGGCTGACCAATTAAACAGATAA
TGACACCTCCTAGAGCTAAGAGCTCTCCGACTATGAACCAGATGCCTGGAGAACACGGATGAATGGTCTGAGCAT
GAGCAGGGGTGGGAGGCAGCGTTAAGGGAGGCATCAGAGTCAGAACCCTAGCAAACAAGTGTGTTGTGAAGAAGAAT
TCATAGAAAAGGGCAATGCGGGCATCACATGGGCTAAGGAACAGAGGGGTAGCAGTAGCTGTTGTGCCAAGCTGC
AGGTGTTATACACTACCCTCTAGATCTGGGTTTCCTTAAACACCTTGAGAGGACAACCCTGCAAAGCACGGCAC
AGTGGCCGAGAGGGAAAGGAGCATTGAGGTCTCAGTCTCGCTCTGAGCCTACTTCTCTGCTTCTGGGCTCCAG
CCATCTTTGTGGAAAGGGGGCTGCTAGTGACACCCCTCTCAAGGGTCTTTCCAGCTCTAGGTCGGCTGTGCTGGAG
TCTAGGATTTGCCCACTGAGAAATCTGTTTCCAAGTTCCTTCAACCTGATGCATCCTGCAGCATCACGGCAGCTG
TTCAGAGTGGTCAGAAGGCCCCCTGAATGAGCTCAGTAGAGGGAAGCCTGGGAACAGGGAGGCACCTGCAGCTCTA
CTCATGGCCTGGCCAGAGCTCAGCAGCTCTTCTCTGCCATCTAGTGGGGATGGCATAACCATCACTGGGGACCACC
CTGTGCAAACCTGGTGAGCCTGAGTGCCTGTCTACAGAGGGAAAGAAAGGGGGGGGATACAGGATTTAGATGAAATA
GCAACTCCTACCCTATTGTCAAATCATCCAGCTTTTTCAAACATCATATTGTAAGTATTTTGTGTTTTTGT
ACAGAGTCTTGCTGTGTACCAAGGCTGGAATGCAGTGGGATGATCTCGGCTCACTGTAGCCTCTGTCTCCCTGG
TTCAAGCAATTCTGCCCCAGCCTCCCAAGTAGCTGGGACTACAGGCATGCGCCACCACACCAGCTAAGTTTTGT
ATTTTTTTAGTAGAGTCAGGGTTTTACTTTGGCCAGGCTGGTCTTAAACTCCTGGCCTCAACTGATCTGCCTGTC
TCGGCCTCCCAAAGAACTGGGATTACAGGCATGAGGCACCGTGCCTGTCCCATGTTGTACTTAATAGATATTTAC
CATATACAATTATTTTTTAATTTAAATAAATCAATGAACAGTGTATTTTTT

1346/6881

FIGURE 1253

MHPAASRQLFRVVRRLNELSRGKPGNREAPAALLMAWPELSSSSLPSSGDGIPSLGTTLCKLVSLSACHRGKER
GGIQDLDEIATPTLLSKSSSFFKTSYCTDFFVFLTESCCVTKAGMQWHDLGSL

1347/6881
FIGURE 1254

GGTGGCGTGGGGACTCCCTGAAAGCAGAGCGGCAGGGCGCCCGGAAGTCGTGAGTCGAGTCTTCCCGGGCTAATC
CATGCCGGGTTGGAGGCTGCTGACGCAGGTCGGCGCCAGGTGCTGGGTGCGACTCGGGGACGGCCTGGGTGCTGC
CCTGGGCCCCGGGAACAGAACACACATCTGGCTTTTTGTTAGAGGTCTTCATGGAAAGAGTGGTACATGGTGGGA
TGAGCATCTTTCTGAAGAAAATGTCCCATTCATTAAGCAGTTGGTCTCTGATGAAGATAAAGCCCAATTAGCAAG
TAAACTGTGTCTCTGAAAGATGAACCATGGCCTATACATCCTTGGAACACAGGTTCCCTTTAGAGTTGGTCTTAT
TGCCTTGAAGCTGGGCATGATGCCTTTATGGACCAAGGATGGTCAAAAGCATGTGGTACATTACTTCAGGTACA
AGACTGTCATGTCTTAAATATACGTCAAAGGAAAAGTGAATGGAAAATGGCAACCCTGTCTGTAGGAGGAAA
AACTGTATCACGTTTTTCGTAAAGCTACATCCATATTGGAATTTTACCGGGAAGTTGGATTGCCGCCGAAACAGAC
AGTTAAATCTTTAATATAACAGATAATGCTGCAATTAAACCAGGCACTCCTCTTTATGCTGCTCACTTTTCGTCC
TCGACAGTATGTGGATGTCACAGCCAAATCGTAGTGGTAAAGGTTTTCAAGGTGTCATGAAAAGATGGGGATTTA
AAGGCCAGCCTGCTACGCATGGTCAAACGAAAACCCACAGGAGACCTGGAGCTGTTGCAACTGGTGATATTGGCA
GAGTCTGGCCTGGAATAAATGCCTGGAAAATGGGAAACATATACAGGACAGAATATGGACTGAAAGTGTGGA
GAATAAACACAAAGCACAACATAATCTATGTAAATGGCTCTGTACCTGGACATAAAAAATTGCTTAGTAAAGGTCA
AAGATTCTAAACTGCCTGCATATAAGGATCTCGGTAAAAATCTACCATTCCCTACATATTTTCCTGATGGAGATG
AAGAGGAACTGCCAGAAGATTTGTATGATGAAAACGTGTGTCAGCCCGGTGCGCCTTCTATTACATTTGCCTAAC
ATCTTTGGACGTGGCAGAACCTTACATATTCTGTGAGCTTCGATGAGCCAGAGTGATATCATAACCACCAGAAAT
CATACTCTCCTTTCTTAGTCACAACAAAATCACACATGTCATCTTTGTCAAGGGCATAAATATATCATTACATACC
CCCATTAATTTTGTAGAAAAATTACCACATTAAATATATGAGTTAAGTAGATTGGATTGCTGAAATTGGTGT
TGGGCATATTAGCAAAATATTCTTAATTTGTGGACTCGATTCTTTTTTACTACATATTTCCCAAGTTATCTTAAG
ATGTCTGTAAATTTAACTTTTATTAAGTTTTGTCAATCTTTGTGAATAGTGGTTGTGGAACAGTAGAAAACCAT
ATGGGGACTATAGTGCAACCTATTGGGTAAAGAAACCATTTGCTAAAAATGGAGAAAGTAAATAGATTTTATTT
AAATTACAGAAACATGTTAAAGGCCGGACAAAGGAAAGACAATAAAATCATAAATTATC

1348/6881

FIGURE 1255

ATGATGACAGTAGGAGTTGAGTGGAGGAGATGGCAAGTTGAGCGGAGGAGGTGGCAGTGGGGCCCCAGATCAGGT
GCCTCCATGGCAGGCTCTGAAGAGCTGGGGCTCCGGGAAGACACGCTGAGGGTCCTAGCTGCCTTCCTTAGGCGT
GGTGAGGCTGCTGGGTCTCCTGTTCAAATCCACCTAGAAGCCATGCCCAAGAAGAGCCAACAGACTTCCTGAGC
CGCCTTCGAAGATGTCTTCCCTGCTCCCTGGGGCGAGGAGCAGCCCCCTCTGAGTCCCCTCGGCCTTGGTCTCTG
CCCATCCGCCCCTGCTATGGAGCCCCTGGCCCTGGCCATGGAGCTGAGCCGGCGCGTGGCCGAGCTGGGGGACAC
CCGGGCCGGACTCAGCGTAGAGCACGCGCACAGCCTCACGCCCTGGATCCAGGCCACGGGGGCGGCTCCACTG
CGTTCGTTCTGTGGTGAAGCCTTGCTGTATGCCCGACTGCAGCCATGAGTGTGGACGCTATGCCTGGCGTCAAT
GACTGGGTACGCTAA

1349/6881

FIGURE 1256A

GAGGTCAGACCGGTTGCTTTCCCGGGAGTTCCGGCGTTTGCTGGGGCTGCAGCAGCTGAAGTGTAGTGTTCCTTG
GGACTGGCGGTCTGCACTTCTCTCCCGGGTTCCATCTCCCCCGCCCGGTGGTGAGGCCCTCGAGGAGGGCTCGG
ACGGGTGTAGCGATCCGCGCTAGAGGAAGACGAGGCCCGGGAACGCATGTCCCCAGGGCAGGTTAGGGGGCTGG
AGGGGTCAAATCCCGGGGTACTTGTGGAGACTCTTTAGCGTGGCTTCTTCTCTGTGAGACCCCGAGAGCTTT
CCCAGTTCTCTCCAGGACCACCGGGGTTCCCTGAAGATCGGGACTTTTCTGCGCCCTCCACCAACAGCCCATC
TCCTGTCTATGAAGAAAGACCCTTCGTAGAAACAACCTCCCCGCTGCTGACGCGTTTTCCCGTCCCGTCCCCGAA
GTAGTCTACTATGACCTCGTTGTGAGCCTCTGAACGATTTTGACACTTTCCCAGGCCCTAGGGTATTATATCCTA
ACCTTACTAAAGACCACAGAGGTGCTTGCCATTATGGGAAATCAGCTTGCTGGCATTGCTCCCTCCCAGATCCTT
TCTGTAGAGAGTTATTTTTAGATATTCATGACTTTGAATATGATAAAAGCCTGGGGAGTACTCGGTTTTTTAAA
GTTGCTCGAGCCAAGCACCGAGAAGGCCTGGTCGTTGTGAAGGTTTTTGCAATTCAGGATCCCACATTGCCTTTA
ACCAGCTATAAACAAGAGCTGGAGGAACTGAAAATCAGGCTTAATTCTGCACAGAATTGTCTACCTTTCCAGAAA
GCATCAGAAAAAGCATCTGAGAAAGCAGCTATGCTCTTTAGGCAGTATGTGCGAGACAACTCTATGATCGCATC
AGTACCCGTCCTTCTTGAATAACATTGAGAAGCGCTGGATTGCTTCCAGATCCTGACAGCTGTGGACCAAGCA
CACAAATCTGGAGTTCGTTCATGGGGACATCAAGACTGAGAATGTGATGGTCACCAGTTGGAATTGGGTCTTCTA
ACTGATTTTGCCAGTTTTTAAGCCCACTTATCTTCCAGAAGACAACCCGGCAGATTTCAATTATTTCTTTGACACA
TCACGGAGGAGAACTTGCTATATTGCTCCTGAACGTTTTGTTGATGGTGGGATGTTTGCCACTGAGTTAGAAATAT
ATGAGAGATCCTTCAACTCCGCTGTAGACTTAAATAGCAATCAGAGAACAAGAGGAGAGTTGAAGAGAGCAATG
GACATCTTTTTCAGCAGGTTGTGTGATAGCTGAGCTTTTTACAGAAGGTGTACCATTATTTGATCTCTCTCAACTT
TTGGCTTATAGAAATGGACATTTTTTCCCTGAACAAGTGCTAAATAAAATGAAGATCAGATATCAGAGAATTG
GTAACCTCAGATGATTCACCGTGAGCCAGATAAACGTTTAGAGGCAGAAGATTACTTAAACAGCAGCGTGGCAAT
GCCCTTCTGAAATATTTTACACTTTTCTTCAGCCCTACATGGCCAGTTTGCCAAGGAAACGTTTCTTTCTGCA
GATGAGCGTATTCGGTTATACGGAAGGATTTGGGCAACATTATTACAATCTCTGTGGACATGATCTGCCAGAA
AAAGCCGAAGGAGAGCCTAAGGAAAAATGGGCTGGTTATCTTGGTATCTGTTATAACATCCTGCCTACAGACCCTT
AAATACTGTGATTCCAAACCTAGCTGCTTTGGAACCTGATTCTTCATTTGGCTCCAAGATTAAGTGTGAAATCCTT
TTGGATCGTATTACTCCATATCTTTTGCACTTCAGCAATGACTCTGTTCTAGGGTGAGGGCTGAAGCCTTGAGG
ACGTTGACCAAAGTTCTTGCTCTCGTCAAAGAGGTTCCCTCGTAATGATATCAATATTTATCCGGAATACATCTG
CCAGGCATAGCCCACTTAGCCCAAGATGATGCTACTATCGTTAGACTAGCCTATGCTGAAAACATAGCTCTGCTG
GCAGAAACAGCTCTGAGATTCTTGGAATTAGTACAGTTAAAAAATCTTAATATGGAAATGACCCCAATAATGAA
GAAATAGATGAGGTTACACATCCAAATGGAAATTATGACACAGAGCTCCAAGCCTTACATGAAATGGTCCAGCAG
AAAGTTGTTACTTTTGCTAAGTGACCTGAAAATATTGTAACAACACCTTGATGGAAATGGAATAACACGGCTG
TGTGATTCTTTGGACGTCAGAAAGCCAACGATGTTTTGTTGTCCCACATGATTACTTTCTTAAATGATAAGAA
GATTGGCATCTACGTGGAGCATTTTTTGATAGTATAGTTGGTGTGCTGCCTATGTTGGCTGGCAAAGCTCCTCA
ATTCTCAAGCCTCTGCTGCAACAAGGCTTAGTGATGCTGAGGAATTTGTCATTGTGAAAGCTCTTTATGCCCTT
ACTTGTATGTGCCAGTTAGGACTGCTACAAAAACCCCATGTTTACGAATTTGCCAGTGATATTGCCCCCTTCTG
TGTCATCCCAATTTATGGATACGTTATGGTGCCGTGGGATTTATCACAGTGGTAGCTCGTCAAATAAGTACAGCT
GATGTCTACTGTAACTGATGCCTTATCTTGACCCATATATTACCCAACCAATAATACAGATTGAAAGAAAACCTT
GTTCTGCTCAGTGTTTTAAAGGAACCAAGTAAGTCTGTTCTATATTTGATTATGCTTTGAGGCTAAAGATATTACT
AGCTTGTTTCAGACATCTTCATGCGTCAGAAGAAACGAAATGGTTCTCTTCCCGACTGCCCTCCGCCAGAGGAT
CCTGCCATAGCACAGCTTCTGAAGAAGTTGCTCTCACAGGGAATGACAGAGGAAGAGGAAGACAAACTTCTGGCA
CTGAAAGACTTCATGATGAAATCTAATAAGCAAAGGCCAATATAGTGGACCAGAGCCATCTTCATGATAGTAGT
CAGAAAGGTGTAATTGACTTGGCAGCTTTAGGCATAACTGGGAGACAAGTTGATCTTGTTAAAAACCAACAAGAA
CCAGATGACAAACGGGCCAGAAAACATGTAAAAACAGACTCAAATGTAAATGAAGAATGGAAGGAGCATGTTGGG
TCACTGGACCCACCAACATGCCACAGGCCCTACCTAAAGGGAGTGATCAGGAGGTGATTCAGACTGGGAAACCT
CCTCGTTCCGAGTCTCTGCTGGCATTGTGTCCCTTTGTCAACTTCTTCACAGGTTCCAGAAGTGACAACCTGTC
CAAAATAAAAAACCAAGTAATACCGGTTTTAAGTAGTACAATCTTACCATCCACCTATCAGATTGCAATTACAACCT
TGTAACCTGAACCTCAGCAACTCATCCAGCAAAAGCGGGAGCAGTGCAATGCTGAGAGAATAGCTAAGCAGATG
ATGGAAGATGCTGAATGGGAGAGTAACCACCACCACCTGGATGGCGTCTAAAGGGCTGTTAGTTGCCCATCTT
CATGAGCATAAATCTGCTGTGAATCGAATTAGAGTCTCTGATGAACACTCACTTTTTGCAACATGTTCAATGAT

1350/6881
FIGURE 1256B

GGCACAGTGAAAACTCTGGAACAGTCAAAAGATGGAGGGGAAGACCACCACTACCAGATCTATTCTTACATACAGC
CGAATTGGAGGACGAGTCAAGACGCTCACATTCTGCCAAGGCTCCCACTATTTAGCCATAGCATCTGATAATGGT
GCTGTCCAGCTTCTTGGAATTGAGGCTTCTAAGCTGCCCAAGTCTCCTAAAAATCCATCCTCTACAAAGCAGAATT
CTAGATCAGAAGGAGGACGGTTGTGTTGTGGATATGCATCACTTCAACTCTGGAGCACAGTCTGTTCTTGCCTAT
GCCACTGTGAATGGCTCTCTGGTTGGCTGGGACCTTAGGTCTTCAAGCAATGCGTGGACTTTAAAGCATGATTTA
AAGTCGGGCCCTCATCACTTCCTTTGCTGTGGACATCCACCAATGCTGGCTCTGCATTGGTACAAGCAGTGGTACC
ATGGCTTGTGGGACATGAGGTTCCAGTTGCCAATTCAAGTCACTGTCACTCTCCAGGGCTCGAATCAGACGC
CTCTCAATGCACCCTCTGTATCAGTCCTGGGTGATTGCAGCTGTTCAAGGGCAACAACGAAGTGTCCATGTGGGAC
ATGGAGACTGGTGACAGAAGATTTACTCTCTGGGCCAGCAGTGCACCACCACTTTCTGAATTACAGCCTTCTCCT
CATAGCGTCCATGGTATCTACTGTAGTCCTGCAGATGGAAATCCTATCCTACTAACAGCTGGCTCAGATATGAAA
ATAAGGTTTTGGGACTTGGCTTACCCAGAAAGGTCTATGTTGTTGCAGGAAGTACTAGTTCCCCATCTGTGTCC
TACTACAGGAAAATAATTGAAGGCACTGAAGTTGTCCAGGAAATTCAGAATAAGCAGAAAGTAGGACCAAGTGAT
GACACCCCTCGAAGGGGCCAGAGTCCTGCCCCGTGGGACATCATGACATCATCACTGATGTCGCCACATTCCAG
ACCACACAGGGCTTCATCGTAACTGCTTCTAGAGATGGGATTGTGAAGGTGTGGAAATAAACCTACTGATTTGT
ATAAATTTTAATAGTTATAAATATAATACTATAACTCGAGAAAAGGCATTTCTAGAGAACAGATTCATTTGCTTA
ATTTTCAAATTATGTCTCCATATTACTGTTTCATGACTGACTGACTAAATGACACCCAAAATGGTTAAGATGTA
CTTGACTAGTTTACTTATGCATCTCTTTGCAAGAATCAGCCAGCCAACAATGTCTGGGATTTTATTGTATATGT
TATAGAGGTGAGAAATGTAATATGAAATGAATATGTTTATTTGTATTGAAAAAGATGGTTGAAAAAGATGGT
TGTAAGCTATTATAGTATAAACACATTTTGTCTATTAATAATGCTATTCAAAGCAGTTAAACTGT

1351/6881
FIGURE 1257

MGNQLAGIAPSQILSVESYFSDIHDFEYDKSLGSTRFFKVARAKHREGLVVVKVFAIQDPTLPLTSYKQEELEELK
IRLNSAQNCLPFQKASEKASEKAAMLFRQYVRDNLDRISTRPFLLNNIEKRWIAFQILTAVDQAHKSGVRHGDIK
TENVMVTSWNWVLLTDFASFKPTYLPEDNPADFNFFDTSRRRTCIIAPERFVDGGMFATELEYMRDPSTPLVDL
NSNQRTRGELKRAMDIFSAGCVIAELFTEGVPLFDLSQLLAYRNGHFFPEQVLNKIEDHSIRELVTQMIHREPK
RLEAEDYLKQQRGNAPFPIFYTFLOPYMAQFAKETFLSADERILVIRKDLGNIHNLCGHDLPEKAEGEPEKENG
VILVSVITSCLQTLKYCDKLALELILHLAPRLSVEILLDRITPYLLHFSNDSVPRVRAEALRTLTKVLALVKE
VPRNDINIPEYILPGIAHLAQDDATIVRLAYAENIALAETALRFLELVQLKNLNMENDPNNEEIDEVTHPNGN
YDTELQALHEMVQQKVVTLLSDPENIVKQTLMEGITRLCVFFGRQKANDVLLSHMITFLNDKNDWHLRGAFFDS
IVGVAAYVGWQSSSILKPLLQQLSDAEFVIVKALYALTCMCQLGLLQKPHVYEFASDIAPFLCHPNLWIRYGA
VGFITVVARQISTADVCKLMPYLDPIITQPIIQIERKLVLVSVLKEPVSRISFDYALRSKDITSLFRHLHMRQK
KRNGSLPDCPPPEDPAIAQLKKLLSQGMTEEEEDKLLALKDFMMKSNKAKANIVDQSHLHDSSQKGVIDLALG
ITGRQVDLVKTKQEPDDKRARKHVQDSNVNEEWKSMFGSLDPPNMPQALPKGSDQEVITGKPPRSESSAGICV
PLSTSSQVPEVTTVQNKKPVIPVLSSTILPSTYQIRITTCKTELQQLIQKREQCNAERIAKQMMENAWESEKPP
PPGWRPKGLLVLAHLHEHKSAVNRIRVSDEHSLFATCSNDGTVKIWNSSQKMEGKTTTTRSILTYSRIGGRVKTLTF
CQGSYLAIASDNGAVQLLGLIEASKLPKSPKIHPLQSRILDQKEDGCVVDMHFNNSGAQSVLAYATVNGSLVGWD
LRSSNAWTLKHDLKSGLITSFAVDIHQCWLCIGTSSGTMACWDMRFQLPISSHCHPSRARIRRLSMHPLYQSWV
IAAVQGNNEVSMWDMETGDRRFTLWASSAPPLSELQSPHVSVHGIYCSPADGNPILLTAGSDMKIRFWDLAYPER
SYVVAGSTSSPSVSYRKIEGTEVVQEIQNKQKVGPSDDTPRRGPESLPVGHHDIIITDVATFQTTQGFIVTASR
DGIVKVWK

1352/6881

FIGURE 1258A

GGCCCTGCCTTCTCCATCAGACACCTGGGAATCACAGCTGGGGCCCCCTGCTTTGGCCGTTTGTCTGCTGGAATC
TGATGGAGGAAAGACGCTCTGAGAGAGTAATTAGACGCAGACAGAGATCTCTCTCCATAGTCAGAGGAGCCTAGC
AGGGGCTGAAGGAACTGCCTGAGGATGACAAAGAAGGGGATCCATGAACAAGGAGGTGCTAACAGGTTTCTTGCT
GATCTTGGCACTGACCGAAGCGCTGGCATTGTCATCCAGGAACCATCTCCCAGGGAATCTCTTCAGGTCTCTCC
TTCAGGCACTCCCCCGGAACCATGGTGACAGCACCCACAGCTCTACCAGACATACTTCTGTGGTGATGCTGAC
CCCCAATCCCGATGGACCCCCCTCACAGGCTGCAGCTCCCATGGCAACACCGACACCCCGTGCAGAGGGGACCC
TCCTACGCACACCATCTCCACCATCGCTGCGACAGTAACCGCCCCCATTCTGAAAGCTCCCTGTCCACAGGGCC
CGCTCCAGCAGCCATGGCAACCATCCTCCAAGCCAGAGGGCGCCCTCGAGGGCAGGCTGCCCCACCATCCT
GCTGACAAAGCCACCGGGGGCCACCAGCCGCCCCACCACAGCGCCCCCGCACTACCACACGCAGGCCCCCAG
GCCCCAGGCTCTTCCCGAAAAGGGGCTGGTAATTCATCACGCCCTGTCCCGCCTGCACCTGGTGGCCACTCCAG
GAGTAAAGAAGGACAGCGAGGACGAAATCCAAGCTCCACACCTCTGGGGCAGAAGCGGCCCTGGGGAAAATCTT
TCAGATCTACAAGGGCAACTTCACAGGGTCTGTGGAACCGGAGCCCTCTACCCTCACCCCGAGGACCCACTCTG
GGGCTACTCTCTTACCACAGCCCCAGACAGTGCGTGCAGACAGTGCCAGCAATACCTCATGGGCACCCAC
CACCACCTCCCTGGGGCCTGCAAGGACAAGCCAGGCCTTCGCAGAGCAGCCAGGGGGGTGGTTCTACCTTCAC
CAGCCAAGGAGGGACACCAGATGCCACAGCAGCCTCAGGTGCCCTGTGAGTCCACAAGCTGCCCCAGTGCCCTTC
TCAGCGCCCCCACCACGGTGACCCACAGGATGGCCCCAGCCATAGTGACTCTTGGCTTACTGTTACCCCTGGCAC
CAGCAGACCTCTGTCTACCAGCTCTGGGGTCTTACGGCTGCCACGGGGCCACCCAGCTGCCTTCGATACCAG
TGTCTCAGCCCCCTCCAGGGGATTCTCAGGGAGCATCCACAACCCCAAGCTCCAACCCATCCCTCCAGGGT
CTCAGAAAGCACTATTTCTGGAGCCAAGGAGGAGACTGTGGCCACCTCACCATGACCGACCGGGTGGCCAGTCC
TCTCTCCACAGTGGTATCCACAGCCACAGGCAATTTCTCAACCGCTGGTCCCCGCCGGGACCTGGAAGCCTGG
GACAGCAGGGAACATCTCCCATGTGGCCGAGGGGGACAAACCGCAGCACAGAGCCACCATCTGCCTGAGCAAGAT
GGATATCGCCTGGGTGATCCTGGCCATCAGCGTGCCCATCTCCTCCTGCTCTGTCTGCTGACGGTGTGCTGCAT
GAAGAGGAAGAAGAAGACCGCCAACCCGGAGAACAACCTGAGCTACTGGAACAACACCATCACCATGGACTACTT
CAACAGGCATGCTGTGGAGCTGCCCAGGGAGATCCAGTCCCTTGAAACCTCTGAGGACCAGCTCTCAGAGCCCCG
CTCCCCAGCCAATGGCGACTATAGAGACACTGGGATGGTCTTGTAAACCCCTTCTGTCAAGAAACACTGTTTGT
GGGAAACGATCAAGTATCTGAGATCTAACTACAGCAGGCATCACTTTGCCATTCCGTATTTTCTGCTCTAAATT
ATAAATATACAAATACATATATTATAAATATAACCTTTGTGTAACCTGACTTAATGAGAAACATTTTCAGCTTT
TTTTCTATGAATTGTCAACATCTTTTTTACAAGTGTGGTTTAAAAAAAAAAAAAACTTTACAGAATGATCTGTG
GCTTTATAAAATAAAGGTATTTCTAAGCAAAGCAGTTGCATTGATTGCTTCTCTTAATAACTATTCTTGAGCAC
TGGGGATCCCAGGAACCTGGTCAGGTGAGGTAAGAGACTGACCTCCTGTAGAAGCTGAATGTTACAGTGCAAGC
GCACGATTCTTTGAGTGATTCTTAAAGCTCTGGTTCTCTTGATTGGTGTGACCCATTCTCCCTCTCATA
CGCACACCTGTAAAGGGAACCTGGACCGCTCAGGGGAAGACGGCAGACTCATGCACAGAGAAGGAAAAGGAAACA
TCTCATACCTCTGAGGATGAGTACCCTGGAGCCTTATGACGGCACCATTGGATGTGATGTTAATTCCATCCAA
GTTGTGGATGGCAGGCAGGAGCATGGAGCCCTCAGGAATCCATGGAGGACATCAAGGCATCCCAAGGCCATATTC
CCCTAACATTACTTCCACTGCTAACAAACAGGACTGCCTTTCCTGGTGGGAAAATGCTCCCTTTATGCCCATTC
TGTATCCCTCCAACACCCACATCTGCATTAAACACCGTGCCTTTCTCTTGAGAGGGTTTAGATGCAGATCCC
GGCCCTGGAGCTTTAAATGCTTGCCCTTCCTTCTTCAAGGATCAAATGTTTATTGGGGTTTACGCTTTGTTTTCT
CAAAAGGCCATGGTATCGTGCCCTGAGGAACATGTTTATCTAAGAAGCTTTGAGGTAGTAGAGCGATAATTTTT
GAAACCTTCTCCTGCAATCTTTAAAAAGAAAAAAGATTGCCCAAACAAATCATTGGGAGAAGACATCATT
ATACTCCTACTTGGCACTGCAAACCTGCTCGCAGCACCAGCCGGTGGACTTGCCATCCAGCTCTCAGCTTCCACT
GCTCCCTTGTTCGGCGCGGCTGGCTGCCTCCCCGTGCTGTGTCCAGCACGGCCAACAACGTCAGACCCTCAGA
GACGCCAAAGGGGCTTCCAGAGGTGGCGCTTCTCTATTTTTCTGATTGTGGCTGAGAGAGATGATTACTGCT
TTGACACTTCTTTCTCTAAAAGAAAAATAGTTTGTAGTATATTTGAATATAGATGCTCTTATAGTCAGATTG
GGAATTGAACCTGAATATTGGGTCTATGTTTGTGTGTGCTGTAGTCTATCATGACTTTTTTCTTTCTGCATT
TTCTTAAAAAAGATGGCCTTCAAAAGTGTGTTCTCAATGTTGTATGAACCTCCTTCACATGAGTTC
GGTGTGTGCTCTCTTCAAAGACTCTTCAACCCACAAGAAGCAACTAAATGTTTCTCTAAGTTTAAATTTCTAG
CGTGTGTGTGCTTACCTTTTTAACCTTACCATAATATTTCTGTTAACTGTTACATTTAATATACCAATGTGTGT
AAGTATACAGAGAAAAATCTGTTTGTAAAGTAAATTTATATATAATATATGTAATCAAAGATACATATGTTATA

1353/6881
FIGURE 1258B

TATACATATGTGGATGTATGACTTATTTTCCTTATCCACAGATTCAGCTACCATGTATATATAAATAAACTTA
TTTATTAGCCAGAG

1354/6881
FIGURE 1259

MKRSLQALYCQLLSFLLILALTEALAFAIQEPSPRESLQVLPSGTPPGTMVTAPHSSSTRHTSVVMLTPNPDGPPS
QAAAPMATPTPRAEGHPPTHITISTIAATVTAPHSESSLSTGPAPAAMATTSSKPEGRPRGQAAPTILLTKPPGAT
SRPTTAPPRTTTRRPPRPPGSSRKAGNSSRPVPPAPGGHSRSKEGQRGRNPSSTPLGQKRPLGKIFQIYKGNFT
GSVEPEPSTLTPRTPLWGYSSSPQPQTVAATTVPNTSWAPTTTSLGPAKDKPGLRRAAQGGGSTFTSQGGTPDA
TAASGAPVSPQAAPVPSQRPHHGDPQDGP SHSDSWLTVTPGTSRPLSTSSGVFTAATGPTPAAFDTSVSAPSQGI
PQGASTTPQAPTHPSRVSESTISGAKEETVATLTMTDRVPSPLSTVVSTATGNFLNRLVPAGTWKPGTAGNISHV
AEGDKPQHRATICLSKMDIAWVILAISVPISSCSVLLTVCCMKRKKKTANPENNL SYWNNTITMDYFNHARELP
REIQSLETSEDQLSEPRSPANGDYRDTGMVLVNPFCQETLFGNDQVSEI

1355/6881
FIGURE 1260

ATGGCGGCGGCATTACGGGTGGCGGCGGTCTGGCGAGCGGTCTCCGCGCCGCGGT
CGCAGCCTTTGCAGCCAGGCCACCTCTGTAAACGAACGCATCGAAAACAAGCGCCGACCGCGCTGCTGGGAGGG
GGCCAACGCCGTATTGACGCGCAGCACAAGCGAGGAAAGCTAACAGCCAGGGAGAGGATCAGTCTCTTGCTGGAC
CCTGGCAGCTTTGTTGAGAGCGACATGTTTGTGGAACACAGATGTGCAGATTTTGAATGGCTGCTGACAAGAAT
AAGTTTCCTGGAGACAGCGTGGTCACTGGACGAGGCCGAATCAATGGAAGATTGGTTTATGTCTTCAGTCAGGAT
TTTACAGTTTTTTGGAGGCAGTCTGTCAAGGAGCACATGCCCCAAAAGATCTGAAAATCATGGACCAGGCCATAACG
GTGGGGGCTCCAGTGATTGGGCTGAATGACTCTGGGGGAGCACGGATCCAAGAAGGAGTGGAGTCTTTGGCTGGC
TATGCAGACATCTTTCTGAGGAATGTTACGGCATCCGGAGTCATCCCTCAGATTTCTCTGATCATGGGCCCATGT
GCTGGTGGGGCCGTCTACTCCCCAGCCCTAACAGACTTCACGTTTCATGGTAAAGGACACCTCCTACCTGTTTCATC
ACTGGCCCTGATGTTGTGAAGTCTGTCACCAATGAGGATGTTACCCAGGAGGAGCTCGGTGGTGCCAAGACCCAC
ACCACCATGTCAGGTGTGGCCACAGAGCTTTTGAATATGATGTTGATGCCTTGTGTAATCTCCGGGATTTCTTC
AACTACCTGCCCTGAGCAGTCAGGACCCGGCTTCCGTCCGTGAGTGCCACGATCCAGTGACCGTCTGGTTCTCT
GAGCTTGACACAATTGTCCCTTTGGAATCAACCAAGCCTACAACATGGTGGACATCATACACTCTGTTGTTGAT
GAGCGTGAATTTTTTGAGATCATGCCCAATTATGCCAAGAACATCATTGTTGGTTTTGCAAGAATGAATGGGAGG
ACTGTTGGAATTGTTGGCAACCAACCTAAGGTGGCCTCAGGATGCTTGATATTAATTCATCTGTGAAAGGGCT
CGTTTTGTGATCTCTGTGATGCATTCAATATTCCACTCATCACTTTTGTGATGTCCCTGGCTTTCTACCTGGC
ACAGCACAGGAATACGGGGGCATCATCCGGCATGGTGCCAAGCTTCTCTACGCATTTGCTGAGGCAACTGTACCC
AAAGTCACAGTCATCACCAGGAAGGCCTATGGAGGTGCCTATGATGTCATGAGCTCTAAGCACCTTTGTGGTGAT
ACCAACTATGCCTGGCCACCGCAGAGATTGCAGTCATGGGAGCAAAGGCGCTGTGGAGATCATCTTCAAAGGG
CATGAGAATGTGGAAGCTGCTCAGGCAGAGTACATCGAGAAGTTTGCCAACCCCTTCCCTGCAGCAGTGCGAGGG
TTTGTGGATGACATCATCAACCTTCTTCCACACGTGCCCCGAATCTGCTGTGACCTGGATGTCTTGCCAGCAAG
AAGGTACAACGTCCTTGGAGAAAACATGCAATATTCCATTGTAA

1356/6881
FIGURE 1261

MAAALRVAAVGARLSV LASGLRAAVRSLCSQATSVNERIENKRRTALLGGGQRRIDAQHKGKLTARERISLLLD
PGSFVESDMFVEHRCADFGMAADKNKFPGDSVVTGRGRINGRLVYVFSQDFTVFGGSLSGAHAQKICKIMDQAIT
VGAPVIGLNDSSGGARIQEGVESLAGYADIFLRNVTASGVIPQISLIMGPCAGGAVYSPALTDFTFMVKDTSYLF
TGPDVVKSVTNEDVTQEELGGAKHTTTMSGVAHRAFENDVDALCNLRDFFNYLPLSSQDPASVRECHDP SDR LVP
ELDTIVPLESTKAYNMVDIIHSVVDEREFFEIMP NYAKNII VGFARMNGRTVGIVGNQPKVASGCLDINSSVKGA
RFVRFCDAFNIPLITFVDVPGFLPGTAQEYGGIIRHGAKLLYAF AEATVPKVTVITRKAYGGAYDMSSKHL CGD
TNYAWPTAEIAVMGAKGAVEIIFKGHENVEAAQAEYIEKFANPFPAAVRGFVDDIIQPSSTRARICCDLDVLASK
KVQRPWRKHANIPL

1357/6881
FIGURE 1262

GAGGCTATGGCGCTCAACAAGAATCACTCGGAGGGCGGGCGGAGTGATCGTCAATAACACCGAGAGCATCCTAATG
TCCTATGATCACGTGGAACCTCACATTCAATGACATGAAGAACGTGCCAGAAGCCTTCAAAGGGACCAAGAAAGGC
ACTGTCTACCTTACCCCTTACCGGGTCATCTTTCTGTCCAAGGGCAAGGATGCCATGCAGTCCTTCATGATGCCA
TTTTATCTCATGAAAGACTGTGAGATCAAGCAGCCCGTATTGGTGCAAACCTACATCAAGGGAACAGTGAAGGCG
GAAGCGGGAGGTGGCTGGGAAGGCTCTGCTTCCTACAAGTTGACTTTCACGGCAGGGGGCGCCATTGAGTTCGGA
CAGCGGATGCTCCAGGTGGCATCTCAAGCCTCCAGAGGTGAAGTCCCCAGTGGAGCCTATGGCTACTCTTACATG
CCCAGCGGGGCTATGTCTATCCCCGCCAGTCGCCAATGGAATGTACCCCTGCCCTCCTGGCTACCCCTATCCA
CCGCCCCACCTGAGTTCTATCCAGGACCCCCATGATGGACGGGGCCATGGGATACGTGCAGCCCCACCAACCG
CCCTACCCCTGGGCCCATGGAACCTCCGGTCAGCGGCCCGATGTCCCCTCCACTCCTGCAGCCGAAGCCAAGGCC
GCAGAAGCAGCCGCCAGCGCCTATTACAACCCAGGCAATCCTCACAACGTCTACATGCCCACGAGCCAGCCGCCG
CCACCTCCCTACTACCCACCGGAAGATAAGAAGACCCAGTAGGCCCTCCTGCCCTCCCTGCCTCCCAACCTCATCT
CTCTACCCCTACCCCTCCCATCGGGGCTGTGCTGGGGCTTGGGGAGGGGAGGGGGCGCCTTGTTCTCCCTCCAGGT
CTGATCATAAACAATTACCAGGAAGTACGATTGTGGGACATTAGGGCCCCCGCCTCGGGAGAGGTGCCGCCAG
CTTCCCATGCCAGCCCGGAGCCACAGTGTGCCAGCGTACCTCCCTCACCCTCTGGGGCTCTTCTGGGAGCAC
GGAGCATCCCTGTTCTGTTTCACTCTCAGCTTCTCCCTCGAAGGGACTCTCTGGCCACCTCCTCCACCGCAG
TCCAGTCCCTCAGTCTGGCACCCACTGCTACACTCAGCCTCATGAGCCACTTCAGACCAGCCAGGTGTCTTCCC
GGGCCCTGCCAGACCTGTCTACATTCCCTCTGCTGGTCTGTGCTGGTCTCAGAAGGCCACCGCGCCCGCATTC
ACTCAGCCAGGGTCCAGCTGCAGCCCCGCCACCCTTCCTTCCCTTCCCTGTCTGGGTCTGTTGTGTTGCCACCC
TGTGTGACTTTTGAAGCTGTAAATGAGCTTCCAGGGCTTGGGTGGCGTCGGGGCAGGGCCGCCGAGGCTGGGAG
GAAGCCCTTCTGCCTTTTGTGTTTCTGGAATTTGCTTTCCCTCACCTCTCACTTCTTCTAGAGGAGCTT
CCTGACTGGAACCAGAGAATGCATGTCTGTCCACTTGGTGGCTGCTGGGTGGGGCCGGGAACAAGGGCCCTGAC
CCTGTGTGCTGGCCGGGACCTGCCACCAGCCCCCAGCCTGCTTCTTCCCTTAAGCTTTGTGCCCTGGATGCG
CTAACATTCACTCTTGTGTTTGTCCCTGGACTGGCCATGAAGTGAGGAGATGTTATTAAAGAGAATTCCCTATTT
ATTTGACAAAAAATCCAGTTAATATATTAATGTGAAATAAACCTGTTTGGCCCTCG

1358/6881
FIGURE 1263

AGGCTCAGGATGAGATCCCAGCACTGTCCGTGTCCCGGCCCCAGACCGGCCTGTCTTCCTGGGCCCTGAGCCTG
AGGACCTGGAGGACCTGTACAGCCGCTACAAGAAGCTGCAGCAAGAGCTGGAGTTCCTGGAGGTGCAGGAGGAAT
ACATCAAAGATGAGCAAAAGAACCTGAAAAAGGAATTTCTCCATGCCCAGGAGGAGGTGAAGCGAATCCAAAGCA
TCCCGCTGGTTCATCGGACAATTTCTGGAGGCTGTGGATCAGAATACAGCCATCGTGGGCTCTACCACAGGCTCCA
ACTATTATGTGCGCATCCTGAGCACCATCGATCGGGAGCTGCTCAAGCCCAACGCCTCAGTGGCCCTCCACAAGC
ACAGCAATGCACITGGTGGACGTGCTGCCCCCGAAGCCGACAGCAGCATCATGATGCTCACCTCAGACCAGAAGC
CAGATGTGATGTACGCGGACATCGGAGGCATGGACATCCAGAAGCAGGAGGTGCGGGAGGCCGTGGAGCTCCCGC
TCACGCATTTTCGAGCTCTACAAGCAGATCGGCATCGATCCCCCGAGGCGTCTCATGTATGGCCACCTGGCT
GTGGGAAGACCATGTTGGCAAAGGCGGTGGCACATCACACAACAGCTGCATTTCATCCGGGTCGTGGGCTCGGAGT
TTGTACAGAAGTATCTGGGTGAGGGCCCCCGCATGGTCCGGGATGTGTTCCGCCTGGCCAAGGAGAATGCACCTG
CCATCATCTTCATAGACGAGATTGATGCCATCGCCACCAAGAGATTTCATGCTCAGACAGGGCCGACAGGGAGG
TTCAGAGGATCCTGCTGGAGCTGCTGAATCAGATGGATGGATTGATCAGAAATGTCAATGTCAAGGTAATCATGG
CCACAAACAGAGCAGACACCCTGGATCCGGCCCTGCTACGGCCAGGACGGCTGGACCGTAAAATTGAATTTCCAC
TTCCTGACCGCCGCCAGAAGAGATTGATTTTCTCCACTATCACTAGCAAGATGAACCTCTCTGAGGAGGTTGACT
TGGAAGACTATGTGGCCCGGCCAGATAAGATTTTCAGGAGCTGATATTAATCCATCTGTGAGGAGAGTGGAATGT
TGGCTGTCCGTGAAAACCGCTACATTGTCTGGCCAAGGACTTCGAGAAAGCATACAAGACTGTATCAAGAAGG
ACGAGCAGGAGCATGAGTTTACAAGTGACCCTTCCCTTCCCTCCACCACCACTCAGGGGCTGGGGCTTCTCT
CGCACCCCCAGCACCTCTGTCCCAAACCTCATTCCTTTTTTCTTTACCCAGGATTGGTTTCTTCAATAAATAG
ATAAGATCGAATCC

1359/6881
FIGURE 1264

CTGGAAGAATTGCGGGCCGAAGTGGCTGGCTCATTTAAGATGAGGCTTCTGCTGCTTCTCCTAGTGGCGGCGTCT
GCGATGGTCCGGAGCGAGGCTCGGCCAATCTGGGCGGCGTGCCAGCAAGAGATTAAAGATGCAGTACGCCACG
GGGCCGCTGCTCAAGTTCAGATTTGTGTTTCTGAGGTTATAGGCGGGTGTTTGAGGAGTACATGCGGGTTATT
AGCCAGCGGTACCCAGACATCCGCATTGAAGGAGAGAATTACCTCCCTCAACCAATATATAGACACATAGCATCT
TTCCTGTCAGTCTTCAAAC TAGTATTAATAGGCTTAATAATTGTTGGCAAGGATCCTTTTGCTTTCTTTGGCATG
CAAGCTCCTAGCATCTGGCAGTGGGGCCAAGAAAATAAGGTTTATGCATGTATGATGGTTTTCTTCTTGAGCAAC
ATGATTGAGAACCAGTGTATGTCAACAGGTGCATTTGAGATAACTTTAAATGATGTACCTGTGTGGTCTAAGCTG
GAATCTGGTCACCTTCCATCCATGCAACAACCTGTTCAAATTCTTGACAATGAAATGAAGCTCAATGTGCATATG
GATTCAATCCACACCATCGATCATAGCACCACCTATCAGCACTGAAAACCTCTTTTGCAATTAAGGGATCATTGCA
AGAGCAGCGTGACTGACATTATGAAGGCCTGTACTGAAGACAGCAAGCTGTTAGTACAGACCAGATGCTTTCTTG
GCAGGCTCGTTGTACCTCTTGGAACCTCAATGCAAGATAGTGTTTCAGTGCTGGCATATTTTGAATTCTGCA
CATTCAATGGAGTGCAATAATACTGTATAGCTTTCCCCACCTCCCAAAAATCACCAGTTAATGTGTGTGTGTGT
TTTTTTTTTAAGGTAAACATTACTACTTGTAACTTTTTTCTTAGTCATATTTGAAAAAGTAGAAAATTGAGTTA
CAATTTGATTTTTTTTCCAAAGATGTCTGTTAAATCTGTTGTGCTTTTATATGAATATTTGTTTTTATAGTTTA
AAATTGATCCTTTGGGAATCCAGTTGAAGTTCCCAAATACTTTATAAGAGTTTATCAGACATCTCTAATTTGGCC
ATGTCCAGTTTATACAGTTTACAAAATATAGCAGATGCAAGATTATGGGGGAAATCCTATATTCAGAGTACTCTA
TAAATTTTTGTGTATGTGTGTATGTGCGTGTGATTACCAGAGAACTACTAAAAAAACCACTGCTTTTTAAATCC
TATTGTGTAGTTAAAGTGTATGCCTTGACCAATCTAATGAATTGATTAATTAACCTGGGCTTTATACTTAACCTA
AATAAAAACTAAGCAGATATGA

1360/6881
FIGURE 1265

GCGGCCGAAGTGGCTGGCTCATTAAAGATGAGGCTTCTGCTGCTTCTCCTAGTGGCGGCGTCTGCGATGGTCCGG
AGCGAGGCCTCGGCCAATCTGGGCGGCGTGCCAGCAAGAGATTAGTGTTTCTGAGGTTATAGGCGGGTGTG
AGGAGTACATGCGGGTTATTAGCCAGCGGTACCCAGACATCCGCATTGAAGGAGAGAATTACCTCCCTCAACCAA
TATATAGACACATAGCATCTTTCCTGTCAGTCTTCAAAGTAGTATTAATAGGCTTAATAATTGTTGGCAAGGATC
CTTTGCTTTCTTTGGCATGCAAGCTCCTAGCATCTGGCAGTGGGGCCAAGAAAATAAGGTTTATGCATGTATGA
TGGTTTTCTTCTTGAGCAACATGATTGAGAACCAGTGTATGTCAACAGGTGCATTTGAGATAACTTTAAATGATG
TACCTGTGTGGTCTAAGCTGGAATCTGGTCACCTTCCATCCATGCAACAACCTTGTTCAAATCTTGACAATGAAA
TGAAGCTCAATGTGCATATGGATTCAATCCACACCATCGATCATAGCACCACCTATCAGCACTGAAAACCTTTT
TGCATTAAAGGGATCATTGCAAGAGCAGCGTGACTGACATTATGAAGGCCTGTACTGAAGACAGCAAGCTGTTAGT
ACAGACCAGATG

1361/6881

FIGURE 1266

GCGGCCGAAGTGGCTGGCTCATTTAAGATGAGGCTTCTGCTGCTTCTCCTAGTGGCGGCGTCTGCGATGGTCCGG
AGCGAGGCCTCGGCCAATCTGGGCGGCGTGCCAGCAAGAGATTAAAGATGCAGTACGCCACGGGGCCGCTGCTC
AAGTTCCAGATTTGTGTTTCCTGAGGTTATAGGCGGGTGTTTGAGGAGTACATGCGGGTTATTAGCCAGCGGTAC
CCAGACATCCGCATTGAAGGAGAGAATTACCTCCCTCAACCAATATATAGACACATAGCATCTTTCCTGTCAGTC
TTCAAACTAGTATTAATAGGCTTAATAATTGTTGGCAAGGATCCTTTTGCTTTCTTTGGCATGCAAGCTCCTAGC
ATCTGGCAGTGGGGCCAAGACCAGTGTATGTCAACAGGTGCATTTGAGATAACTTTAAATGATGTACCTGTGTGG
TCTAAGCTGGAATCTGGTCACCTTCCATCCATGCAACAACCTGTTCAAATTCTTGACAATGAAATGAAGCTCAAT
GTGCATATGGATTCAATCCCACACCATCGATCATAGCACACCT

1362/6881
FIGURE 1267

CAATTAAGTTGCAGAGTTCTGATGGAGAGATATTTGAAGTTGATGTGGAAATTGCCAAACAATCTGTGACTATTA
AGACCATGTTGGAAGATTGGGAATGGATGATGAAGGAGATGATGACCCAGTTCCTCTACCAAATGTGAATGCAG
CAATATTAAGGTCATTTCAGTGGTGCACCCACCACAAGGATGACCCCTCCTCCTGAAGATGATGAGAACA
AAGAAAAGCGAACAGATGATATCCCTGTTTGGGACCAAGAATTCCTGAAAGTTGACCAAGGAACACTTTTTGAAC
TCATTCTGGCTGCAAACTACTTAGACATCAAAGGTTTGCTTGATGTTACATGCAAGACTGTTGCCAATATGATCA
AGGGGAAAACCTCTGAGGAGATTTCGCAAGACCTTCAATATCAAAAATGACTTTCCTCTTTTTTGTAAAGCAATG
TCTGCCTAGTTTATTGTCCAGTTAACTTTAGTGACCTTTTAAAAGTTGGCATTGTAAATAAAACAACCTTGCAAAA
AAGTTTTCTGGAATAGAATTAACAAAATATTATCTTTATTCATGAGTTGGAACTGGAAAAAGGCTTCTTGAAGT
AAATGTTCTGAGTGGAGCTACTAGGATGCTTCCAGCCTCCTGCAGTCAAGGAGTACCACTGTATTGATTAGCCT
GTATGTAGCAGGGCTCCCTTCATTGCACTGAGGACTTGTTTTCTTTTCTTTATTTTAAATCCTCTAGTTTTA
AATATATTGCCTAGAGACTCAGTTACTACCCAGTTTGTGGTTTTTTGGGAGAAATGTAAGTGGACAGTTAGCTTT
TCAATTAAAAAGACACTTAACCCATGTGGGATGTCATCTTTTATAATTAGTGTCCCATGTGGAGAAAATTATT
CACACTACTTGTCATGTAAAGAATAATTTAACTTTTAACATTAAAAATATGTGGTAAAACCCAGAAAGCATCCATCA
TGAATGCAAGATACTTTCAATAAAAAGTAAGTTATATAGTAGGTAGTTAAGTTTGCTTTTGTGGACTTAAATGTG
TCTCTTCACTTAAATGGGTTGAATGTGTATATATTTGTTTCAAGCTTGAAAAGACTTAGTTTATATCCTAGCTCACT
GGAGGCTGCTGACATAACCATAACTTCTGTCCCTTCTAATTGTCATTTATATGCCTAACTGGAGCTAGTACTTTA
ATTCTTAACACAAAATTACTCTGCCATTGTTTCCAGCTTCCCTCCTACAATAGAATGAAGTTTTTTTGATGGCTT
GAGATGGCTCACAAATTTTGATTTTTTTTCTTCTTGTGCTCCCTTTTTTCTCCTTGCTTTTCCAGTTAACAT
CTATATTCACATGTAATCTTGTTTTCTTTCACATTCACTGAGTTGTTTCAAGCTCAGATCATCCCTTGACAGTAG
TTTGCCTTCATCTCACCTTTCATTTGTCCCAAATTCACCTTATTTAATAAAGTCCCATATGTTGTCTCACTTAA

1363/6881
FIGURE 1268

CAATTAAGTTGCAGAGTTCTGATGGAGAGATATTTGAAGTTGATGTGGAAATTGCCAAACAATCTGTGACTATTA
AGACCATGTTGGAAGATTTGGGAATGGATGATGAAGGAGATGATGACCCAGTTTCCTCTACCAAATGTGAATGCAG
CAATATTAAAAAGGTCATTTCAGTGGTGCACCCACCACAAGGATGACCCCTCCTCCTGAAGATGATGAGAACA
AAGAAAAGCGAACAGATGATATCCCTGTTTGGGACCAAGAATTCCTGAAAGTTGACCAAGGAACACTTTTTGAAC
TCATTCTGGCTGCAAACTACTTAGACATCAAAGGTTTGCTTGATGTTACATGCAAGACTGTGCCAATATGATCA
AGGGGAAAACCTCCTGAGGAGATTCGCAAGACCTTCAATATCAAAAATGACTTTACTGAAGAGGAGGAAGCCCAGG
TACGCAAAGAGAACCCAGTGGTGTGAAGAGAAGTGAATGTTGTGCCTGACACTGTAACACTGTAAGGATTGTTCC
AAATACTAGTTGCACTGCTCTGTTTATAATTGTTAATATTAGACAAACAGTAGACAAATGCAGCAGCAAGTCAAT
TGTATTAGCAGAATATTGTCTCATTGCATGTGTAGTTTGAGCACAGATCCCAAACCTTACGGCCAAGTTTCTTC
TAGTATGATGGAAAGTTTCTTTTTCTTTGCTCTGAATAAACTGAACTGTGGGTTCCTATAAGTGGCATTTTG
GGCTTTCCCTCTTTTTTGTAAGCAATGTCTGCCTAGTTTATTGTCCAGTTAACTTTAGTGACCTTTTAAAAGTT
GGCATTGTAAATAAAACAACCTTGCAAAAAAGTTTCTGGAATAGAATTAACAAAATATTATCTTTATTCATGAGT
TGGAACTGGA AAAAGGCTTCTTGAAGTAAATGTTCTGAGTGGAGCTACTAGGATGCTTCCAGCCCTCCTGCAGT
CAAGGAGTACCACGTATTGATTAGCCTGTATGTAGCAGGGCTCCCTTCATTGCATCTGAGGACTTGTTTTCTTT
TTCTTTATTTTTAATCCTCTTAGTTTTAAATATATTGCCTAGAGACTCAGTTACTACCCAGTTTGTGGTTTTTTG
GGAGAAATGTAACCTGGACAGTTAGCTTTTCAATTA AAAAGACACTTAACCCATGTGGGATGTCATCTTTTTATAA
TTAGTGTTCCCATGTGGAGAAAATTATTCACACTACTTGCAATGTAAGAATAATTTAACTTTTAACATTAAATA
TGTGGTAAACCAGAAAGCATCCATCATGAATGCAAGTACTTTCAATAAAAAGTAAGTTATAT

1364/6881
FIGURE 1269

MPSIQLQSFEDGEIFAVDVEIAKQSVTIKTTLEDLGMDDEGDDPVPLPNVNAAVLKKVIQWCTHHKDDPPPPEDDE
NKEKQTDDIPVWDQEFKVAQGTLFELIRAANYLDIKGLLDVTCKTVANMIKGKTPEEIRKTFNIKNDFTEEEEE
QVRKENQWCEEK

1365/6881
FIGURE 1270

GGTGGGTTTATCTCAAGGCCTGAGTAGCCGGTAACAAACGAGGGTTCCCGGGATTGGACCGACGCACCATGCCTC
TGCGACTTGATATCAAAAGAAAGCTAACTGCTAGATCTGATCGAGTTAAGAGTGTGGATCTGCATCCTACAGAGC
CATGGATGTTGGCAAGTCTTTACAATGGCAGTGTGTGTTTGGGAATCATGAAACACAGACACTGGTGAAGACAT
TTGAAGTATGTGATCTTTCCTGTTTCGAGCTGCAAAGTTTGTGCAAGGAAGAATTGGGTGTGACAGGAGCGGATG
ACATGCAGATTAGAGTGTTCATTACAATACTCTGGAGAGAGTTCATATGTTTGAAGCACACTCAGACTACATTC
GCTGTATTGCTGTTTCATCCAACCCAGCCTTTTCATTCTAAGTAGCAGTGATGACATGCTTATTAAGCTCTGGGACT
GGGATAAAAAATGGTCTTGCTCACAAGTGTGTTGAAGGACACACCCATTATGTTATGCAGATTGTGATCAACCCCA
AAGATAACAATCAGTTTGCCAGTGCCTCTTTGGACAGGACTATCAAGGTGTGGCAGTTGGGCTCTTCGTCACCAA
ACTTCACTTTGAAGGACATGAGAAAGGCGTGAATTGCATTGATTACTACAGTGGTGGGGACAAGCCATACCTCA
TTTCAGGTGCAGATGACCGTCTTGTTAAATATGGGATTATCAGAATAAAACATGTGTGCAGACATGGAAGGAC
ATGCCCCAAATGTGTCTTGTCAGCTTTTCATCCTGAGTTGCCAATCATTATCACAGGTTTCAAGAGTGAAGACAG
TACGTATTGGCATTCAAGCACCTACCGGCTTGAGAGCACATGAATTATGGAATGGAGAGGGTATGGTGCCTGG
CCAGTCTAAGAGGGTCAAACAATGTCGCTTTGGGCTATGATGAAGGGAGCATCATGTTAAGCTTGGTCCGGAGG
AACCTGCCATGTCCATGGATGCCAATGGAAGATAATTTGGGCCAAGCATTCAAGTCCAGCAGGCCAACCTAA
AAGCAATGGGAGATGCTGAAATTAAAGATGGTGAAAGATTGCCACTGGCAGTAAAGGATATGGGCAGTTGTGAAA
TATACCTCAGACTATTACGACAAATCCTAATGGGCGGTTTGTGGTGGTGTGTGGTGATGGGGAGTATATCATCT
ACACAGCAATGGCATTGAGAAACAAGAGCTTTGGATCTGCTCAGGAGTTTGCATGGGCCACGATTCTTCAGAGT
ATGCAATAAGAGAGAGCAACAGCATTGTAAAGATATTTAAGAACTTTAAGGAAAAAAATCATTTAAACCAGATT
TTGGAGCAGAAAGTATCTACGGCGGCTTCTTATTGGGAGTCAGATCTGTAAATGGCTTAGCCTTCTATGACTGGG
ACAATACAGAATCATACGAAGAATTGAAATTCAGCCCAAACATATTTTCTGGTCTGACTCTGGAGAGCTAGTCT
GTATTGCTACTGAGGAATCATTTTTTATCCTTAAGTATCTGTGAGAAAAGTCTTGGCTGCACAGGAAAACATG
AGGGAGTTACTGAAGATGGCATTGAAGATGCCCTTGAGGTTCTTGGTGAGATTCAAGGAAATTGTGAAAACAGGGC
TTTGGGTAGGCGATTGCTTCATTACACAAGTTCTGTGAACAGATTAAATTATTATGTTGGAGGAGAAATAGTCA
CCATTGCCCACTTGACAGGACGATGTATCTCCTAGGCTACATTCTTAAAGACAACAGGCTTTATCTGGGGGATA
AAGAATTGAACATCATTAGCTATTCCCTGCTGGTTTCAGTCTGGAATACCAGACAGCTGTATGCGGAGGGACT
TTAGCATGGCTGATAAGGTCCTTCTTACCATTCCAAAAGAACAGAGGACCAGAGTTGCACACTTTTGGAAAAGC
AGGGCTTCAAGCAGCAAGCTCTTACAGTATCCACAGATCCTGAGCATCGTTTGGAGCTTGCTCTTCAGCTTGGAG
AGTTAAAAATGCTACAGTTAGCAGTGGAGCAGAGTCAGAACAGAAGTGGAAACAACCTGCTGAACCTGCCA
TTAGTAAATGTCAGTTTGGCCTAGCCCAGGAGTGCCTGCATCATGCACAGGATTATGGGGGCTGCTGCTTTTGG
CCACTGCCTCTGGAATGCTAATATGGTGAACAAGCTAGCAGAGGGTGCAGGAGAGAGATGGCAAAAATAATGTGG
CATTATGAGCTACTTTTTACAGGGCAAGGTTGATGCCTGCCTAGAGCTCTTAATTAGAACTGGACGGCTGCCAG
AAGCTGCCTTCTTGGCCCGAACTTACTTACCCAGTCAGGTTTCAAGGGTAGTGAAACTCTGGAGAGAGAATCTCT
CAAAAGTCAATCAGAAAGCAGCAGAATCCCTTGCTGACCCAACAGAGTATGAAAACCTGTTCCCTGGATTAAAAG
AAGCCTTTGTTGTTGAAGAATGGGTGAAGGAAACACATGCTGATCTGTGGCCAGCCAAACAATACCCACTTGTCA
CGCCAAATGAAGAGAGAAATGTATGGAAGAGGGAAAAGACTTTCAGCCCTCAAGATCTACAGCTCAACAGGAAC
TTGATGGGAAACCTGCTTCTCCTACTCCGTTATTGTGGCTCCACACAGCCAACAAGAAGAAAAGAGTTTAC
TCGAAC TAGAAGTAGATTGGATAATTTGGAATTAGAAGATATTGACACAACAGATATCAATCTGGATGAAGATA
TTTTGGATGATTGACTGTAATGCTTTCCATTTACCTGACTAAACAGATCATTATTATATAGGTATTGATTGCT
ACCCTGACCACAGTGTCTTGGACTATGAGAACTTCTTAGATTTTTATATGTAATGCTGTGGACCACTGGGAGC
ACAAATGCCACATCATCTTAAGAAGAGTTTATGTGCAGCATTTAAATCACTGTGTTTTCTTGTAACTAAAACA
GACATGGGCTTTGATTTTTTTCATACTATTAGACCATATCTCATAAAACCTTTTGAATTAAAAAAA

1366/6881
FIGURE 1271

MPLRLDIKRKLTARSDRVKSVDLHPTEPWMLASLYNGSVCVWNHETQTLVKTFEVC DLPVRAAKFVARKNWVVTG
ADDMQIRVFNYNTLERVHMFEAHSDYIRCI AVHPTQPFILTSSDDMLIKLWDWDKKWSCSQVFEGH THYVMQIVI
NPKDNNQFASASLDRTIKVWQLGSSSPNFTLEGHEKGVNCIDYYSGGDKPYLISGADDRLVKIWDYQNKTCVQTL
EGHAQNVSCASFPELP I IITGSEDGTVRIWHSSTYRLESTLNYGMERVWCVASLRGSNNVALGYDEGSIIVKLG
REEPAMSDANGKIIWAKHSEVQQANLKAMGDAEIKDGERLPLAVKDMGSCEIYPQTIQHNPNGRFVVVCGDGEY
IIYTAMALRNKSFGSAQEFWAHDSSEYAIRESNSIVKIFKNFKEKKSFKPDFGAESIYGGFLLGVRSVNGLAFY
DWDNTELIIRRIEIQPKHIFWSDSGELVCIATEESFFILKYLSEKVLAAQETHEGVTE DGI EDAFEVLGEIQEIVK
TGLWVGDCFIYTSSVNRLNYYVGGEIVTIAHLDRMTMYLLGYIPKDNRLYLGDKELNII SYSLVSVLEYQTAVMR
RDFSMA DKVLP TIPKEQRTVAHFLEKQGFKQQALT VSTDFEHRFELALQLGELKIAYQLAVEAESEQKWKQLAE
LAISKQCFG LAQECLHHAQDYGGLLLLATASGNANMVNKLAE GAERD GKNNVAFMSYFLQ GKVDACLELLIRTGR
LPEAAFLARTYLP SQVSRVVKLWRENLSKVNQKAAESLADPTEYENLFPGLKEAFVVEEWVKETHADLWPAKQYP
LVTPNEERNVMEEGKDFQPSRSTAQQELDGKPASPTPVIVASHTANKEEKS LLELEV DLDNLELEDIDTTDINLD
EDILDD

1367/6881
FIGURE 1272

ATGCAGCGCTACAATTTTCATTATCTTAAGTACATTGTACATTTCTACAGAACCTGTGATTATTCTCGCATGATA
AGGATGGTACTTGCATATGGTGAATTACTACTGTGACAGTTTCCGCAGAAATCCTATTTTCAGTGGACCAACATT
GTGGCATGGCAGCAAATGCCAACATTTGTGGAATAGCAGCAAATCTACAAGAGACCCTGGTTGGTTTTTCGTTT
TGTTTTCTTTGTTTTTTCCCCCTTCTCCTGAATCAGCAGGGATGGAAGGAGGGTAGGGAAGTTATGAATTACTCC
TTCCAGTAG

1368/6881
FIGURE 1273

MQRYNFHYLKYIVHFYRTCDYSRMIRMVLAYGELLLLTVSAEILFQWTNIVAWQQMPTFCGIAANLQETLVGFSE
CFLCFFPLLNQQGWKEGREVMNYSFQ

1369/6881
FIGURE 1274

AAAGCTCGCGCGGGGAAGCGGGGCTGTAGCTGGGCAGGGAGAGGGCGGACGAAATCGGTAGCGATCTCGGCTGC
GGCGCTGCCGCGAGCTGCCCCGCGCGGGGCGCGCCCTGACCCCTTCATCTTTGGGCAGGCTCGAGGGCGCGCGCA
CGGTTGGCGTTCTGGGGCCTCAAACCTCCTGGGCCTTGACCGGGCAGGCCGCGTCTCCCCGGGTGTGAGTCCACCG
GGACCCGGCGCGCCCTAAGCGCGGGCGCCACAGAAGCGGGCGCGCCGAAGACGCGCTCCTGGCTCGGCCCCGAC
AGCCTCGCTTGGCCGCCAGTTCTTCTGCAGCCGAAGCGGTTGTTCTTTTAAAGAATTATTGAAGACGAAGGTTT
TTTTCTTTTTATTTTTTTAATGGCTTTACAGAATCTTAAATAGAATACAGTTTGACATGACGGCAAAAAATGTTG
GTTTGACTTCCACAAATGCAGAAGTAAGAGGATTTATAGATCAGAATCTCAGTCCAACAAAAGGCAACATTTTCAT
TTGTTGCATTTCAGTTTCCAAATACCAACTCACCTACAAAGATTTTACCAAAAACCTTAGGACCAATAAATGTGA
ATGTTGGACCCCAATGATTATAAGCACACCACAGAGACTAACCAGTTCAGGAAGTGTTCTGATTGGGAGTCCAT
ATACCCCTGCACCAGCAATGGTTACTCAGACACACATAGCAGAAGCTACTGGCTGGGTCCCTGGTGATAGAAAAC
GGGCTAGAAAATTTATAGACTCTGATTTTTTCAGAAAGTAAACGAAGCAAAAAAGGAGATAAAAAATGGGAAAGGCT
TGAGACACTTTTCAATGAAAGTGTGTGAGAAAGTTCAACGAAAAGGTACAACATCGTACAATGAAGTCGCTGATG
AGCTGGTGTCAGAGTTCACCAATTCAAATAACCAATTTGGCTGCTGATTCTGGCTTATGATCAGAAGAACATTAGGC
GAAGAGTTTATGATGCTTTAAATGTGCTAATGGCAATGAACATAATTTCAAAGGAAAAAAGAAATCAAGTGA
TTGGCCTGCCTACCAATTCGCTCAGGAATGTCAGAATCTGGAGATAGAGAAGCAGAGGCGGATAGAGAAGGATAA
AGCAGAAGCGGGCCAGCTGCAAGAACTTCTCCTACAGCAAATCGCTTTCAAAAACCTGGTACAGAGAAATCGAC
AAAATGAGCAGCAAAACCAGGGCCCGCGGCTCTGAACCTTACCAATTCAGCTGCCATTGATCAATCAATACAA
GCAGAAAAACAGTCATAGATTGCAGCATCTCCAGTGACAAGTTTGAAGTATCTTTTCAATTTTGACAACACCTTTG
AGATCCATGATGACATAGAAGTACTAAAGCGGATGGGAATGTCGTTTGGCCTGGAGTCAGGCAAAATGCTCTCTGG
AGGATCTGAAACTTGCGAAATCCCTGGTGCCAAAGGCTTTAGAAGGTTATATCACAGATATCTCCACAGGACCTT
CTTGGTTAAATCAGGGACTACTTCTGAACCTTACCAATCAGTTTCAAATTTAGACCTGACCACTGGTGCCACCT
TACCCAGTCAAGTGTAACCAAGGGTTATGCTTGAGTGCAAGTGGCCTTAGCAACTGGGCAGTTCTCTGGCCC
CAAACAGTCACCAGTCCAGCAGTGGGCGCTCTCACTGCTCCGAGTCCCGAGGCGAGACCCCTGTTCTGTTCAATG
ATGAAGATGAGGAAGATGATGAGGAGGATTCTCCTCCCGAGAATAAGACAAGAGAAAGCCTACGTTTCAATAT
GTGATGCTCATGTGTGTTGTAGTGTGAGCTCTTGTTTTTGAATGATTGCTTCAGTCTTTGCTTTGTTGTCAC
TGTGTGTTTCAAGTAAAAGTCTGGCCAACAGAGCAGTAGATGATATAACAAAGAAAGCATGCTTTCTGAGGAGATAG
CATAGTGTGAATGAAAGTCTGGCCAACAGAGCAGTAGATGATATAACAAAGAAAGCATGCTTTCTGAGGAGATAG
TGGGGATAATCCCTGAAGAGTTGGCAGTGTGAGTGCAACTCATTATCTTCTGTGAGGTGGGATTTTGTGTTCC
TCACACCCATGTAATTATTCTTAGAATTGAGATTGCTACACGAGCAGTCTTGACGATCGTGTTTCTGACGTTT
CTCTTCTTGGCTGGACTGCCCTTTGACAAGGCAGAAATGAACATGAAAAGTCCCAGGAGAGGGGAGCTGTGTAG
TGAGGGATACTGAGGGCAGTCTGTGGCTGAGGGGCACAGATTGAACTGCTGAACTAGTTGGAGGTCTAGATGAG
GTGCTTTACGCATCAGCTGCCCTTAGACAGCTTCTAGAAAGGAGCGAGCGCTACTTCTTAAGTACTTAAGTGACAT
TTAGATAATTTATAGTAAAAGTGAATTTATTATTAGCCAATGCATTGGTGATAGAAATTTACTAGGGCTACTTCT
GGAAGCCAAAAATAGAAATAGCATTTCATGTGCATTAAATACTTTGCCAGCACTGCCTTTGCCAGCATCCTAAATC
TGGAGTTTACAAAGAAGGAACTGTATCTTTAGGTTAATCAAAGCTATGCATTTTCATATAGCTTTTTCATTTAA
AACAAGACAAAGAAACAAATTCCTATGACCAAATGCTTGCCCTACAGTTCCTGCAGTAATTGTATGATCTCACC
CAGTGTGCAATTTGTGAAAATGAACCAAATGTCATTACTTTTGTCTTAAAGAAAGTCTATTTCAAGAATATGAA
CAGCAGTG

1370/6881
FIGURE 1275

ACACACACTCCCGCTTGGGCCTCCTCTCTCTCCGGCTCCATTTTCTCCGCCGCCGGGGCCGGGGTCTCCTGT
GGGGGGCCAGCCGSTATCCAGGTCTCCCTTCAGTGCCGGGGTGAACCCCGGGGAGCCGAGAGCCGGGGGCA
GACGGGCGGGGGTTGGGGCGGAGGGAGCAGCGGCCCCAGCGAGTTTGTGGGGAGAAGTAACCAAGCGGGGGAGG
GGCTGAGCAGGGAGGGGCTCAGGGCCCCCCCCAGCTATGGACTAACGGCTACTGGGGCCGCTCCTCCAGGC
GGGGCCCGGGGGGGCCTGGGATTGGTGAGTGGGGAGCCTGGGGGCCCTGGCGAGCCTCCTGGTGGCGGAGACCC
CGGTGGGGGTAGCGGGGGTTCCCGGGAGGCCGAGGGAAGCAAGACATCGGGGACATTCTGCAGCAGATAATGAC
CATCACCGACCAGAGCCTGGACGAGGCCAGGCCAAGAAACAGCCCTAAACTGCCACCGAATGAAGCCTGCTCT
CTTTAGCGTCTGTGTGAAATCAAGGAGAAAACCGGCCTCAGCATTCCGAGCTCCCAGGAGGAGCGCGGTGGA
CCCACAGCTGATGCGCTTGGACAACATGCTTCTGGCAGAGGGTGTGGCTGGGCCCCGAGAAAGGGGGCGGCTCAGC
AGCAGCAGCTGCAGCCGCTGCAGCCTCTGGTGGTGGCGTGTCCCTGACAACTCCATCGAACACTCGGACTATCG
CAGCAAACTTGCCAGATCCGTACATATACCACTCGGAAGTGGAGAAGTATGAGCAGGCATGTAATGAGTTAC
GACCATGTGATGAACCTGCTGAGGGAGCAGAGCCGACAGGCCCGTGGCCCCAAAGAGATGGAACGCATGGT
GAGCATCATCCATCGAAAGTTCAGCGCCATCCAGATGCAGCTGAAGCAGAGCACCTGCGAGGCTATGATGATGCT
GCGTCCCGTTTCTGGATGCCAGACGAAAGCGCCGTAACCTCAGCAGACAGGCCACTGAGGTCTAAATGAGTA
TTTCTACTCCACCTGAGTAACCCATATCCTAGTGAGGAGGCCAAGGAGGAGCTTGCCAAGAAGTGTGGCATCAC
CGTGTCTCAGGTCTCCAACCGTTTGGCAACAAGAAGATTGCTATAAGAAAAACATCGGAAAGTTCCAAGAGGA
GGCAAAACATCTATGCTGTAAGACAGCCGTGTCAGTCACCCAGGGGGGCCACAGCAGCACCAGCTCCCCGACACC
CCCTTCCTCTGCAGGCTCTGGCGGCTCTTTCAATATCTCAGGATCTGGAGACATGTTTCTGGGATGCTGGGCT
CAACGGAGATTCTATTCTGCTTCCAGGTGGCATCACTCCGACGCTCGATGGGGCCAGGGGGCTATGGGGATAA
CCTCGGGGAGGCCAGATGTACAGCCCACGGGAAATGAGGGCAAATGGCAGCTGGCAAGAGGCTGTGACCCCTC
TTCAGTGACATCCCCAACGGAGGGACCAGGGAGTGTTACTCTGATACCTCCAACCTGATCTTGCCCTCAGGGTC
ACAGGGGTGGGGGCTCTACAAGGCGACTCTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAG
AAGCACAAGACAGAGAAGGGCCAATGGGGTCATCCGCTCCCTAATGAGACTGTCTGTGCTGGGGGTGCTAATTAC
ATGGCAGGAAGAATGGGGCCCCAAGGGGAGTGTGGGGTCTGTCTCTCCCTTTTTTCCAACTTTTCTCTCTCG
CTTTCTTTCTTACACAGAAACATGCACATACCCAGAACTATTTCTCAGACCCCTTTTTCTCCTCTGTCTTTC
TCTCTCCCTCTCCACACCTCACACACATACTCCCACTTGCAACTATTCTGTTTCTCTCCTGGGCTCCCCAC
TTTCCCTTCCCCACCCCACTTGAGGCTCTGGAATCTGGAGACGCCAGCCCTGCCCAATCAGAGATGCCAAAAT
GGGGACATGACTTCTGGACAGAGGACATGGGACACGCCCCATGCATCCCCACCCCTGCCCTCCAGACAGCTTA
CTTACCTCATACGCAGCTCATCTTAAACCAATAGAATCGCTTGGTGGACGAGAGTGTCTGACTCAGATATCTACC
TCGGAGGGAGTTTCTGCTACTTTAGGGAATTATGACTGGGCTTGGGGTTGAACTTTTTTTTTTTTTTTTTT
AAAGAAAGAAAAAGAAACCCTGGGATCCATCTGTTTTGTTGTTGTTGTTGTTTTGTTGTTGTTGTTGTTGTTG
GTGGTGGTTCTTAATTTTTAATTTAGTTTGGGGAAGTAGCTTGTTTTTTTTTTTTTAAATAAATATGTTGATTTCT
TGTCTTTTTTTATTICTTACTTTCCCATATTAGGGGTGATAGCCAAAGGGTCTGGTAAGAGAAAGGGGACA
AACAGAACTGGTAAAGAGGCCCCCTGGCTCCAGGCCTGTCCATCAGGAAGTAAATTTTACAGGGCACCAAGCTT
TGCCCCCTAAATCCATTAGGTGTTCTTTGTTTCATGCAGGCAGGTTTCTGCCGATTTGATGTGGAGGCAGTGAA
GGGCTTGCCCTGCTGGCCTCTCATCCCCCTTCTTCCACAACCCTTGGGCAGGGCTGGACTCAGTAATTTGAGG
AAATTGAAGATGCCATCTTCCCTGTGAGTGACATGTCTTTAATTTTTTAAAAAACTCTATTTGAAATTTGAGG
GGGAAGAATGGGAAGGGAGTTATTGCCAAATATGTTAATTATGGGTTGGGGTGCTTGATATGTATCTTCTCAA
TTTCCGCATAAATGAGGTATCTTTTGTACACCAAAAATCAAGGGTAGGGAGAGGGAGGAGGTTGCAAAAAGCC
AGATGTGGGGGAAAAGTAACATCAACACTGTCCATCCTCAGCCCTGAACCCTACCATCTGATCCCTCAGACAT
TCTCAGGATTTTACAAGACTGTGAGGTGGGGAACCCCTCCATTAAAGATCCGGGCAGGACTGGGGACAGGTTG
GAAATGTGATGGGTTGGGGGTGGGAGGCATGGGCCGGGGCAGTTCTCTCTCACTTGTAACCTTGTGTAGTTT
CACAGAAAAAAAATGCAGTTTTAAATAAGAAATTTCTTT

1372/6881
FIGURE 1277

MRGANAWAPLCLLLAAATQLSRQQSPERPVFTCGGILTGESGFIGSEGFPGVYPPNSKCTWKITVPEGKVVLNF
RFIDLESNLCRYDFVDVYNHANGQRIGRFCGTFRPGALVSSGNKMMVQMISDANTAGNGFMAMFSAEPNERG
DQYCGGLDRPSGSFKTPNWPDRDYPAGVTCVWHIVAPKNQLIELKFEKFDVERDNYCRYDYVAVFNGGEVNDAR
RIGKYCGDSPPAPIVSEARNELLIQFLSDLSLTADGFIGHYIFRPKKLPTTTEQPVTTFPVTGLKPTVALCQOK
CRRTGTLEGNYCSSDFVLAVITITITRDGSLHATVSIINIYKEGNLAIQQAGKNMSARLTVVCKQCPLLRGLN
YIIMGQVGEDGRGKIMPNSFIMMFCTKNQKLLDALKNKQC

1373/6881
FIGURE 1278

GAACCGCCATCTTCCAGTAATTCGCCAAAATGACAAACACAAAGGGAAAGAGGAGAGCCACCCGATATATGTTCT
CTAGGCCTTTTAGAAAACATGGAGCTGTTTCCTTTGGCGACGTATATGCGAATCTATAAGAAAGGTGATATTGTAG
ACATCAAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAACTGGAAGAGTCTACA
ATGTTACCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATG
TGCGTATTGAGCACATTTAGCACTCTAAGAGCCGAGATAGCTTCCTGAAATGCATGAAGGAAAATGATCAGAAAA
AGAAAGAAGCCAAAGAGAAAGGTACCTGGGTTCAACTAAAGTTCCAGCCTGCTCCACCCAGAGAAGCACACTTG
TGAGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCCCTATGAATTCATGGCATATAGGTGTTAAAAA
AAATAAATAAAGGACCTCTGGGCTA

1374/6881
FIGURE 1279

MTNTKGKRRATRYMFSRPFRKHGAVPLATYMRIYKKGDIVDIKGMGTVQKGMPHKCYHGKTGRVYNVTQHAVGIV
V NKQVKGKILAKRINVRIEHI SHSKSRDSFLKCMKENDQKKKEAKEKGTWVQLKFQPAPPREAHFVRTNGKEPEL
LELIPYEFMA

1375/6881
FIGURE 1280A

CCGCGGGCGGGGCGGGCTGGCGTTCACGTGACCCGGCGTCATTGGCTCGCTCGCGGAAGTAGTCCTACATTTCGCG
GTCAGCGCGGGGTCTCCGGGCGCCCTGCAGGGCGGGCAGGCTGTGCCATCCCGCCGGACGTGGGATGGTGCAGC
TGTACAACCTGCACCCGTTTCGGGTGCGAGCAGGTGGTGCCTGCAAGCTGGAGCCGGACCGGTTCTGTGGCGGGG
GGCGTGACGCGCTTTTCGTGGCGGGCGGGCTGCAAGGTGGAGGCGTTCGCGGTGGCCGGCCAGGAGCTGTGCCAGC
CGCGGTGCGCCTTCTCCACGCTGGGCGGGGTGTTGCGCCTGGCCTACAGCGAGGCTGGAGATTATTGGTAGCAA
TTGAAGAGAAAAACAAAGCTACATTCTACGTGCTTATGTGAAGTGGAGAAATAAAAGGACTGAAAACTCTCGTG
TGTGTATCCGAATGATTGGGCATAATGTGGAGGGACCATTACAGCAAAGCCTTCAGAGACCAGATGTACATTATTG
AAATGCCGCTTTTCGGAGGCCCCCTTGTGCATTTCCTGTTGCCCTGTGAAAGGAGACCTTCTCGTTGGCTGCACAA
ATAAATTAGTCTTATTTAGTTTGAAGTACCAGATCAATTAATGAGGAATTCTCACTATTGGACTTTGAACGTTCTT
TAATTATACATAGATAATATCACTCCTGTTGAGGTTTCTTTTGTGTTGGATATGTTGCTGTCAATGTGCAGACT
TAGAAGTCTTAATCGTAAAGTGGAGTCAGGCCCTAAAAATGGAGAGAGAGTTCAACCAATCCACATAAGACCA
ACAATCGAATAAGACGGACAGAAGAAGGCATCAGTAATGAAATTCACAGCTTGAGTCAGATGATTTGTGTCATCT
GCCAGAAGCCCCCTGGAACCTTCTGGTGAAAAAGTGAACAGTCTGGATTATCTGTTACACTGGAGTCTACGGGAT
TAGCTGATGAAAAAAGAAAAATATCCCACTTTTCAGCACCTGCTCTATAGACGTTTGTCTCTGATATTTCGTCTCT
ATGCTTTGCTGATGACATCAAGCTACATTCCCTCCAGCTGCTACCCATTTACCAGACCGGTTCTCTTACATCTG
ATGGAATAATTTGTCTCAGGAAAAAGAAATGCTGAGTCTCTTTTGTCTTTTCTCCTTACCTCATGTGGGCTATC
TCTACATGGTGTCAAATCTGTTGAATTGATGTCAGTCTACAGTATCCTGAAAAGTCTCAGCAGGCAGTACTCA
CGCCACAATTTTGCACGTCATTACAAGTAACAACCTGCAGTGTTCAGTGTGCGGTGCAGTGCAGCGCGGCAGCTC
GTGAGGAGGACCCGTACATGGACACCACCTGAAGGCTTGGCCACCTGTCAAGTATGGATGTGCTGCTTTAAGAA
TACAGCTTTTCATAGGCTTGAAGCCATCTGTCACTTTAAAAACCATCATACTTTTGACTAAAGCAGAACCTG
AAGCCATTCCAGAGAGAAGACAGTCACCCAAGAGGCTTCTTTCGAGAAAAGATACCAGTGTAAAAATCAAAATAC
CTCCTGTAGCTGAGGCTGGGTGGAATTTGTATATTGTGAATACGATCTCACCAGTGCAGCTGTACAAAGAGATGG
TAGACTATAGCAATACCTATAAGACTGTCAAAACCCAGCTGCAATTCACCTTCTCAGTGAGGCTCATCTGTTAG
TGCGAGCTGCCCTGATGGATGCCAGTCAGCTGGAACCTGGAGAGAAGGCAGAGCTTTTGAAGCATTTAAGGAAA
GCTGTGGGCACTTTGGGGACTGTTACAGCAGGCTTGACTCCCAGCATTCTCATCTCACCTTGCCATACTATAAGA
TGTCTGGTTGTCTATGGCTGAAGTTCTGGCCCGCACGGACTGGACAGTAGAGGATGGATTACAGAAATACGAGA
GAGGATTAATCTTTTACATTAATCATTACCTTTATGAAAACCTGGATGAAGAATTAAATGAAGAATTAGCAGCAA
AAGTGGTTCAGATGTTTTATGTGGCTGAGCCAAAGCAAGTGCCCCATATTCTCTGTAGTCCTTCTATGAAGAATA
TTAATCCTTTAAGTCCATGAGCTATCTAAGGAAGCTGGATACTTCTGGGTTTTTCATCGATCTTAGTGACATTGA
CCAAGGCAGCAGTGGCTCTGAAAATGGGAGATCTTGACATGCACAGAAATGAAATGAAAAGCCATTACAGAGATGA
AGTTGGTATGTGGCTTCATTCTGGAACCTCGGCTGTTGATTCAACAGAGAAAGGGACAGATTGTTCCAACCGAGC
TTGCATTCACTTGAAGGAAACTCAGCCTGGATTGCTTGTGGCTTCAGTTCTGGGCTTGCAAGAAACAACAAA
TTGGAATTGAAGAAGCAGATTCTTTTTTAAGGTGCTTTGTGCTAAGGATGAAGATACAATTCCTCAGCTCTTGG
TAGACTTTTGGGAAGCTCAGCTAGTGGCATGTCTCCAGATGTGGTACTTCAGGAACCTTTTTTCAAACCTCACAT
CACAGTACATCTGGAGATTGTCTAAGAGGCAGCCTCCTGACACCACACCATTGCGAACATCGGAGGATCTGATAA
ATGCCCTGTAGTCATTATGGCTTAATTTATCCATGGGTTACGTCGTAATATCATCTGATTCTTTAGCTGATAAAA
ATTATACAGAAGATCTTTCAAATTAACAGTCTCTTATATGTGGTCCTTCATTGACATAGCTTCCATTATTCCGT
TCTTGGAGCCACTTTTCAAGACACTATTGCCGGCCTCAGTGTCCATGTTCTGTGTCGTACACGCTTGAAGAGT
ATGAACAGTGCATAGACATACTGTTAGAGAGATGCCCGGAGGCAGTCATTCCATATGCTAATCATGAAGTGAAG
AAGAGAACCGGACTCTGTGGTGGAAAAAAGTGTGCTGAAGTGTGTCAGAGAATAAAATGTGGTGGAGAGAAGT
ATCAACTCTACCTGTATCATTAATAAGAAACATTGTCAATTGTTGCTGTGGAAGTGAAGTGAAGGATTTTCATGA
ATGTTCTCCAGAAAGATGGTACTGCAACATTTTCTTGCCATATCTTCTCTATTGCAGTCAAGAAAGAACATTGA
CTTAAAGGTATCATTTGAAAAATACCATAATGGCATTGAGACTGAATTTCTAAAAATGAATGCCAAAGTACAA
GTAGAGGAGTTTTTTATTTTATATATACACACACACACACACACACACACACATATATGATACAA
ATGCTTTTCAAGGCTGCTTACCTTACCGTGTAGTGGTAACTATTCACTTCTTAATTATGACCTCAATCAATTTAAT
TGTCTAGAATGTAAAAAGTCTTTAAGACATAAGAATTCCTCAAAGAAGCCATACATTTTTTAAGGTGGGGATTGA
CTTTTATTCCAAGGAACAACATCAGTTCAGTGTGTTGGAGACATGACAATCATTTTCATCCCAAGAACACTTTA
AGGAAACATTTTACAAGTATGCTTGAAAGAATGTCACTAAGTGGTCCAGAATTTTATCTTCTTGATTTTTCCAGA

1376/6881

FIGURE 1280B

TTTCTCTATGTTTTGAGAAAGATGTTAATGTTTTGCCATGGTAAAAGATTCAAACCTCATTTTTTTGTTTCCT
TTTCTTGTTACTTTTAAGAAAACATGCTCTGTTTCTCTGAATCAAATGAAGTAGAAGTTACAAAGCTAACTT
TCTTCTTGCTAGCTATTAACATGATTGTCAAATGCATGTTTTTTTCAGCCAAAGCCTTGTTTCATTTTTGT
GATGTGTA CTCTTGCTCTTTTAGCTAGAGTGATGTGAAAATAAAGAAATACATCATTGTATTCACAAAAAAA
AAAAAAAAAAAA

1377/6881
FIGURE 1281

MVQLYNLHPFGSQQVVPCKLEPDRFCGGGRDALFVAAGCKVEAFVAGQELCQPRCAFSTLGRVLRRLAYSEAGDY
LVAIEEKNKATFLRAYVNWRNKRTENSRCIRMIGHNVEGPFSAFRDQMYIIEMPLSEAPLCISCCPVKGDLLV
GCTNKLVLFSKYQIINEEFSLLDFERSLIIHIDNITPVEVSFCVGYVAVMSDLEVLIVKLES GPKNGERVHHHP
HKTNNRIRRTTEEGISNEISQLESDDFVICQKPLELLGEKSEQSGLSVTLESTGLADEKRKYSHFQHLLYRRFAPD
ISSYVLSDDIKLHSLQLLPYQGTGSLTSDGKNLSQEKELLSLFCFFSLPHVGYLYMVVKSVELMSVYQYPEKSQQ
AVLTPQFLHVITSNNLQCFTVRCSAAAAREEDPYMDTTLKACPPVSMVLCALRIQLFIGLKAICHFKNHIILLTK
AEPEAIPERRQSPKRLLSRKDTSVKIKIPPVAEAGWNLYIVNTISPVLQYKEMVDYSNTYKTVKTQSCIHLLSEA
HLLVRAALMDASQLEPGEKAELLEAFKESCGHLGDCYSRLDSQHSHLTLPYKMSGLSMAEVLARTDWTVEDGLQ
KYERGLIFYINHSYENLDEELNEELA AKVVQMFYVAEPKQVPHILCSPSMKNINPLTAMSYLRKLDTSGFSSIL
VTLTKAVALKMGDLDMHRNEMKSHSEMKLVCGFIEPRLLIQQRKGQIVPTALHLKETQPGLLVASVLGLQK
NNKIGIEEADSFFKVLCAKDEDTIPQLLVDFWEAQLVACL PDVVLQELFFKLTSQYIWRLSKRQPPDTPPLRTSE
DLINACSHYGLIYPWVHVVISSDSLADKNYTEDLSKLQSLICGPSFDIASIIPFLEPLSEDTIAGLSVHVLCTR
LKEYEQCIDILLERCPEAVIPYANHELKEENRTLWKKLLPELCQRIKCGGEKYQLYLSSLKETLSIVAVELELK
DFMNVLPEDGTATFFLPYLLYCSRKKPLT

1378/6881
FIGURE 1282

GGCACGAGGGCTTCTCCTGCGCCTCCTTTTCGCCCCAGCACTAGCGCCTTAGGCCAGCTCGGGGGATGTGAGAGCC
GAAGCCCTTAGACTGCCAGGCACAGAGTCGGGTCGGGATTTGTACGCCAAGCCTCGGCTCCAGCTCCGCAATCTC
GGGACTCACCCGAGCGACCCAGGCCCCGACGGCAAGTTCGGGCGGGACGGCGGCCGCCGCGCTCAGGCTCAGCT
TCGCTGCCGCCCAGAAGATGAATCCGGCCTCGGCGCCCCCTCCGCTCCCGCCGCCTGGGCAGCAAGTGATCCAC
GTCACGCAGGACCTAGACACAGACCTCGAAGCCCTCTTCAACTCTGTCAATCCGAAGCCTAGCTCGTGGCGG
AAGAAGATCCTGCCGGAGTCTTTCTTTAAGGAGCCTGATTGCGGGCTCGCACTCGCGCCAGTCCAGCACCAGCTCG
TCGGGCGGCCACCCGGGGCCTCGACTGGCTGGGGGTGCCAGCATGTCCGCTCGCACTCGTCGCCCGCTCCCTG
CAGCTGGGCACCGGCGCGGGTGCTGCGGGTAGCCCCGCGCAGCAGCAGCGCACCTCCGCCAGCAGTCTACGAC
GTGACCGACGAGCTGCCACTGCCCCCGGGCTGGGAGATGACCTTCACGGCCACTGGCCAGAGGTACTTCTCAAT
CACATAGAAAAAATCACCACATGGCAAGACCCTAGGAAGGCGATGAATCAGCCTCTGAATCATATGAACCTCCAC
CCTGCCGTCACTCCACACCACTGCCTCAGAGGTCCATGGCAGTATCCCAGCCAAATCTCGTGATGAATCACCAA
CACCAGCAGCAGATGGCCCCCAGTACCTTGAGCCAGCAGACCAACCCCACTCAGAACCCACCCGAGGGCTCATG
AGTATGCCCAATGCGCTGACCACTCAGCAGCAGCAGCAGCAAACTGCGGCTTCAGAGAATCCAGATGGAGAGA
GAAAGGATTGGAATGCGCCAAGAGGAGCTCATGAGGCAGGAAGCTGCCCTCTGTGACAGCTCCCCATGGAAGCT
GAGACTCTTGCCCCAGTTCAGGCTGCTGTCAACCCACCCACGATGACCCAGACATGAGATCCATCACTAATAAT
AGCTCAGATCCTTTCTCAATGGAGGGCCATATCATTCGAGGGAGCAGAGCACTGACAGTGGCCTGGGGTTAGGG
TGCTACAGTGTCCCCACAACCTCCGGAGGACTTCTCAGCAATGTGGATGAGATGGATACAGGAGAAAACGCAGGA
CAAACACCCATGAACATCAATCCCCAACAGACCCGTTTCCCTGATTTCCTTGACTGTCTTCCAGGAACAAACGTT
GACTTAGGAACCTTGGAATCTGAAGACCTGATCCCCCTCTTCAATGATGTAGAGTCTGCTCTGAACAAAAGTGAG
CCCTTTCTAACCTGGCTGTAAATCACTACCATTGTAACCTTGGATGTAGCCATGACCTTACATTTCTGGGCCCTCTT
GGAAAAAGTGATGGAGCAGAGCAAGTCTGCAGGTGCACCACTTCCCGCCTCCATGACTCGTGCTCCCTCCTTTTT
ATGTTGCCAGTTTAATCATTCGCTGGTTTTGATTGAGAGTAACCTAAGTTAAACATAAATAAATATTCTATTTTC
ATTTTCTGCAAGCCTGCGTTCTTGTGACAGATTATACAGAATTGTGTCTGCAGGATTGATTATGCAGAATACTTT
TCTCTTTCTCTCTGCTGCCCATGGCTAAGCTTTATGGGTGTTAATTGAAATTTATACACCAATTGATTTTAAA
CCATAAAAAGCTGACCACAGGCAGTTACTTCTGAGGGCATCTTGGTCCAGGAAATGTGCACAAAATTCGACCTGA
TTTACAGTTTCAAAAATGTATTGATGACAGTAGTACCAATGCTTTAAAACTATTTAACTTGAGCTTTAAAAA
TCATTGTATGGATAGTAAATTTCTACTGTATGGAATACAATGTAATTTGAATCAAAAAAAAAAAAAAAAAA

1379/6881
FIGURE 1283

MNPASAPPFLPPPGQQVIHVTQDLDTDLLEALFNSVMNPKPSSWRKKILPESFFKEPD SGSHSRQSSTDSSGGHPG
PRLAGGAQHVRSHSSPASLQLGTGAGAAGSPAQQHAHLRQQSYDVDELPLPPGWEMTFTATGQRYFLNHIEKIT
TWQDPRKAMNQPLNHNMLHPAVSSTPVPQRSMASQPNLVMNHQHQQQMAPSTLSQQNHPTQNPPAGLMSMPNAL
TTQQQQQKLRLQRIQMERERIRMRQEELMRQEAALCRQLPMEATLAPVQAAVNPPMTTPDMRSITNNSDPFL
NGGPYHSREQSTD SGLGLGCYSVPTTPEDFLSNVDEMDTGENAGQTPMNINPQQTRFPDFLDCLPGTNVDLGTL
SEDLIPLFNDVESALNKSEPFLLTWL

1380/6881
FIGURE 1284

CTTCCTCTTTCACTCCGCGCTCACGGCGGCGGCCAAAGCGGCGGCGACGGCGGCGCGAGAACGACCCGGCGGCCA
GTTCTCTTCCTCCTGCGCACCTGCCCCGCTCGGTCACTCAGTCGGCGGCGCGCGCCCGGCTTGCTCAGACCTC
GCGCTTGCGGCGCCAGGCCAGCGGCGTAGCTAGCGTCTGGCCTGAGAACCTCGGCGCTCCGGCGGCGCGGGC
ACCACGAGCCGAGCCTCGCAGCGGCTCCAGAGGAGGCGAGTGAGCGAGTCCGAGGGGTGGCCGGGCGCAGGT
GGTGGCGCCGCGAAGATGGTCGCCAAGCAAAGGATCCGTATGGCCAACGAGAAGCACAGCAAGAACATCACCCAG
CGCGGCAACGTCGCCAAGACCTCGAGAAATGCCCCGAAGAGAAGGCGTCTGTAGGACCCTGGTTATTGGCTCTC
TTCATTTTTGTTGCTGTGGTTCTGCAATTTCCAGATTATTCAAAGTATCAGGATGGGCATGTGAAGTGAAGTGA
CCTTAAGATGTTTCCATTCTCCTGTGAATTTAACTTGAAGTCAATTCCTGATGTTTGATACCTGGTTGAAAACA
ATTAGTAAAGCATCCTGCCTCAGAATGACTTTCCTATCATGCTTCATGTGTCATTCCAAGGTTTCTTCATGAGT
CATTCCAAGTTTCTAGTCCATACACAGTGCCTTGCAAAAAACACCACATGAATAAAGCAATAAAATTTGATTG
TTAAGATACAGTAGTGACCCCTACTTATTCAGTCAATTAAGAGTAAGTTTTTTATGTGTTTATTAACAGTAT
GAACAATTAGTCTAACTCTGCATAGACAGGGTCTAGATTTTGTTAAACCAAATGTATAACTGCAGTTAGCTTAA
TTACAATTTGAAGTCTTGTTGTTTTTATATAGCTAGGCACTTTATTACTCTTTGAACTGAAAGCACACTCCCTT
ATAGGTTTCATGTAAGTGTCTGTAAATAAGGTGCTTATAAATGGAACAACACACAGCCTAGTTTGGCACAACCT
TTAGCATCTAAAAAGTTTTAAAGCTTCTAAATGTCTAATATAAAGGGAGATGCTTATAGCCACAACATCTATTT
TACCAATATTGTTTCCATTACACTACCTTGGATTTTGCATGAGTGAGTATAGTAACCCAAGATGCCATAAAAAA
AACTTGATCGTTTTCTGACTTAATTAGTTACTGTGTTTCACTAAAAGCTACCGTGGTGGAGTGAAGTCAGTCAG
GGAAGGTTTGTATTATGTTACATTTATTTACCAGAACTATTTAATATATCAAAGGGGTTTACTATGCCAAACAA
AATTCTAGGGAAAAAATACTGCTAAAAATGGATGCCTCATCAGAACATGCTGTTGAGTCCAATGTGCCATAAGACA
TTTTAGCATGTTAAATAGCACTTTTAAATAGCAAAAAAAGGCACATCAACTGCGAAGTTATCCTTAGTTTGCAAT
GCTTTTTCTAGATTAATGATTTTTCAATCATTAGGGTACTAGACACATCAGCCTAAAGTGGCATCTGGAATTGAA
TGGATTTACTGATAATGATCAGTCTTTAGTCTTCCCTTTGTTATATGACTTTATAGGTTATGATGATCAAATTT
ACGTTTTACTAATGGTAAGGGTGAGGGTCATAGGGCAGGTTTTGGGTTTTCTAGTACTGTTGAAAACGCAAGTA
TTGGCTATTTGTATACTTAGCCATAACTTGGTGAAAAAAACCTGAGCAGTGTCTATGTATTAATGCGTTGGAAA
GAAAGCTGCTTGTGTTTGCTTTGTTAATTGCCTCAGGATATTTCTTTTAAATAAGCTGTTTTAAGAGGAACAGA
AGGGAATCTGCTACCTAGTCTATACACAGCGTGAACCTCACAGGGGGCTTCTGATACCCTCAAACATGGAGAAC
AGTAAGGGAGCAGAGTGGTTAAGGACTTTCAGGAACCTTAACATTTCTGGAATAAGGAATGAATCAACTGACCTTG
GGCCAGCAGGTTTTAACTAAATTGTTACTTGCCTTTCTCAGGAGTTAATCAGTCTCTGTACTTGTTCCTTTT
TTGAAACAAGTGTCTTGTTAACTAATTCTGTTTTATGTTGTGCTAAATTCATAGCAGGTGCCTTATTCTTTGC
TTTTAGTCAAACCATTCATATCAGAATTTTCTTGGTTTACTATAGATATTTGGCTTTAAGTTGTTGTTTGTGT
TTTTAATGTACAATGTTCTGATAAATTTGACTGTTAAATTGCTATAGCTAGCAATCATTTTACATATGTAAAA
ATTGCATTCCCTTTGTATTTTCATGTGTAATTCACCAATTAAGTGCAGTTTATATTCAGGTTGGATTATGCATGTT
TAGGTAAACGAAAGCTGTGTCTTACTTGATTATTCTTTAAAAATAAAGTTCCTGAATATTTGAAAAA
AAAAA

1381/6881
FIGURE 1285

MVAKQRIRMANEKHSKNITQRGNVAKTSRNASPEEKASVGPWLLALFIFVVCGSAIFQIIQSIRMGM

1382/6881
FIGURE 1286

GCATGAGGAGACGTGTAGGGGCCGGGTTTCGGCCCTGGTGAACCTCTCACCCGAGCGGTTTCTCTTTCCGGGACAAC
ATGGCGCCGTCCACGCCGCTCTTGACAGXX
XXXXXXXXXXXXXXXXXXXXXXXXXXGGAATCTGGGAAGAATTGCAAAGTCTGTATCTTTAGTAAGGATGGGACCTTG
TTTGCCTGGGGCAATGGAGAAAAAGTAAATATTATCAGTGTCACTAACAAGGGACTACTGCACTCCTTCGACCTC
CTGAAGGCAGTTTGCCITGAATTCTCACCCAAAAATACTGTCCTGGCAACGTGGCAGCCTTACACTACTTCTAAA
GATGGCACAGCTGGGATACCCAACTACAACCTTATGATGTGAAAACCTGGGACATGTTTGAAATCTTTCATCCAG
AAAAAATGCAAAATTGGTGTCCATCCTGGTCAGAAGATGAACTCTTTGTGCCCGCAATGTTAACAATGAAGTT
CACTTCTTTGAAAACAACAATTTTAACACAATTGCAATAAATTGCATTTGCAAAAAATTAATGATTTTGTATTA
TCACCTGGACCCCAACCATACAAGGTGGCTGTCTATGTTCCAGGAAGTAAAGGTGCACCTTCATTTGTTAGATTA
TATCAGTACCCCAACTTTGCTGGACCTCATGCAGCTTTAGCTAATAAAAGTTTCTTTAAGGCAGATAAAGTTACA
ATGCTGTGGAATAAAAAAGCTACTGCTGTGTTGGTAATAGCTAGCACAGATGTTGACAAGACAGGAGCTTCCTAC
TATGGAGAACAACTCTACACTACATTGCAACAAATGGAGAAAGTGCTGTAGTGCAATTACCAAAAAATGGCCCC
ATTTATGATGTAGTTTGGAAATCTAGTTCTACTGAGTTTTGTGCTGTATATGGTTTTATGCCTGCCAAAGCGACA
ATTTTCAACTTGAAATGTGATCCTGTATTTGACTTTGGAACCTGGTCTCGTAATGCAGCCTACTATAGCCCTCAT
GGACATATATTAGTATTAGCTGGATTTGGAATCTGAGGGGACAAATGGAAGTGTGGGATGTGAAAACTACAAA
CTTATTCTAAACCGGTGGCTTCGATTCTACATATTTGCTTGGTGCCCGGATGGTGAGCATATTTTAACAGCT
ACATGTGCTCCCAGGTTACGGGTTAATAATGGATACAAATTTGGCATTATAGTGGCTCTATCTTGACAAAGTAT
GATGTGCCATCAAAATGCAGAATTATGGCAGGTTTCTTGGCAGCCATTTTGGATGGAATATTTCCAGCAAAAACA
ATAACTTACCAAGCAGTTCCAAGTGAAGTACCCAATGAGGAACCTAAAGTTGCAACAGCTTATAGACCCCCAGCT
TTAAGAAATAAACCAATCACCAATTCCAAATTGCATGAAGAGGAACCACTCAGAATATGAAACCACAATCAGGA
AACGATAAGCCATTATCAAAAACAGCTCTTAAAAATCAAAGGAAGCATGAAGCTAAGAAAGCTGCAAGCAGGAA
GCAAGAAGTGACAAGAGTCCAGATTTGGCACCTACTCCTGCCCCACAGAGCACACCACGAAACACTGTCTCTCAG
TCAATTTCTGGGGACCCTGAGATAGACAAAAAATCAAGAACCTAAAGAAGAACTGAAAGCAATCGAACAACCTG
AAAGAACAAGCAGCAACTGGAAAAACAGCTAGAAAAAATCAG

1383/6881
FIGURE 1287

MQNWCPSWSEDETLCAENVNNEVHFFENNNTIANKLHLQKINDFVLSPGPQPYKVAVYVPGSKGAPSFVRLYQ
YPNFAGPHAALANKSEFFKADKVTMLWNKKATAVLVIASDVKTGASYGQTLHYIATNGESAVVQLPKNGPIY
DVVWNSSTEFCAVYGFMPAKATIFNLKCDPVDFGTGPRNAAYYSPHGHLVLAGFGNLRGQMEVWDVKNYKLI
SKPVASDSTYFAWCPDGEHILTATCAPRLRVNNGYKIWHYTGSIHKEYDVPSNAELWQVSWQPFLDGIFPAKTIT
YQAVPSEVPNEEPKVATAYRPPALRNKPITNSKLHEEEPPQNMKPSGNDKPLSKTALKNQKHEAKKAQKQEAR
SDKSPDLAPTPAPQSTPRNTVSQSIGDPEIDKKIKNLKKKLKAIEQLKEQAATGKQLEKNQLEKIQKETALLQE
LEDLELGI

FIGURE 1288A

GGCGCTTGCTCCAGGAGAACTGCAAAATATCTTCATCCACCCCAACATTAAAAACGCGAGTTGGAGATAAAATGGA
CGCAATAACTTGATTACAGCAGAAGAACATGGCCATGTTGGCCCAGCAAATGCAACTAGCCAATGCCATGATGCCT
GGTGCCCCATTACAACCCGTGCCAATGTTTTTCAGTTGCACCAAGCTTAGCCACCAATGCATCAGCAGCCGCCTTT
AATCCCTATCTGGGACCTGTTTTCTCCAAGCCTGGTCCCGGCAGAGATCTTGCCGACTGCACCAATGTTGGTTACA
GGGAATCCGGGTGTCCCTGTACCTGCAGCTGCTGCAGCTGCTGCACAGAAATTAATGCGAACAGACAGACTTGAG
GTATGTCGAGAGTACCAACGTGGCAATTGCAACCGAGGAGAAAATGATTGTCGGTTTGCTCATCCTGCTGACAGC
ACAATGATTGACACCAATGACAACACAGTCACTGTGTGTATGGATTACATCAAAGGGAGATGCTCTCGGAAAAAG
TGCAAATACTTTTCATCCCCCTGCACATTTGCAAGCCAAGATCAAGGCTGCCAATACCAGGTCAACCAGGCTGCA
GCTGCACAGGCTGCAGCCACCGCAGCTGCCATGACTCAGTCGGCTGTCAAATCACTGAAGCGACCCCTCGAGGC.
ACCTTTGACCTGGGAATTCCTCAAGCTGTACTTCCCCCATTACCAAAGAGGCCTGCTCTTGAAAAAACCAACGGT
GCCACCGCAGTCTTTAACACTGGTATTTTCCAATACCAACAGGCTCTAGCCAACATGCAGTTACAACAGCATACA
GCATTTCTCCACCAGTTCCTCATGGTGCACGGTGTCTACGCCAGCCACTGTGTCCGAGCAAACAACATCTGCCACA
AGTGTTCCTTTCGCTGCAACAGCCACAGCCAACCAGATACCCATAATATCTGCCGAACATCTGACTAGCCACAAG
TATGTTACCCAGATGTAGAATTTTCATCACTAAACAATCATGCTAAAGAGGAAAAGGACAGTGTGCTTGGTTAGAG
TAAAGGACGAGGTCATTAGCCATATTGTATATATCGTCAAGCAACACACAAAAAGTTCCTCAGCCACAAGACAT
CCACATATTGCATGTTAACGAGAAGAAAAGACAACATTTTCCGGAATCCACTGCACACTGTTGCCTATACACTT
TGTACATTTAATTGATATTTGTGCTGAGGTGATATTCCTGTCTAAAAGAACAACATTGTCTTTCTTTCTAGCAC
AGAGTTATGCATTCAAAGATGCATACCTAGTTAGTTTCTTATATATTTCATGCCATCTTGAAAAGACAGACTATGG
TGTAACCATGATTCTATTATGTATTGGTACGCTGTAGACCAAGATATAATTTTAAAAATAAGTTTATTTCTT
TCAAGGTTTACAAATAACAAAGGTGCACCTTGTATTTAAAAATTGCCATTATAGATGAGAGCGTGCATGCACAGTC
ATTTTTGTTTAAGAGTAATATTTTTAATGTAATAGATTGTAAGACGTGGTGAGGGAGGGATCTGACAGAGATGAA
TGTGCCAAGCAAAACCACAACCTGTGTATATTTTAAAGCACATCATGGCTTTAAGTACCATGTTGTTAAGGATTCT
CATGAAGTGCCATAGACTGTACATCAAATTAGAGTATTATTTCTTCAGTGTTATTGTTTTTCAGAGCCACATTTTG
TTGCATATTTGCTAGTACTAATCAGTCAAAGGGCACCATTCTTTTTTTTTTTTTTTGAAACCAAAGCTGTCTCAG
AAATGGCCAATTTAACTTTACAGTAACAATAGACAGCACAAACAACTCTCTCAATACAGATAAACTCACACAT
ACTGGAGATATATATATAATAGATATATATAAAATTATTTTAAATGCATTGTAGTGTAATATTTATGCATACTATA
CTGTATAACATGTTATTTCAAAGGGATTGCCATTTCTGAGACACAGTAACAAAAAATGAGGAAATTATTTTGCT
TCTATTTATAGCCTCTGTCAAAAGTCAAAGACTATAAATGCTTTGCAAAAAATGGTTTCACGTTTGCTTAAATGC
TTCATCACAGTCACATTCAAAATAGTGACTCTAAACAAAGAAGAAAGCAGCACTGTCTCATCAGATGCATGATAAAC
CAAAATATGAAAATGGGAAATGTTTAATTAACCTAGTAATTTGGGTGGGTTAAGTACATGGGTGAATTTTATATGT
GATTTTTGTTTTGTTTTGTTTTGTTTCAGATTAACCTGCCTATAGCCTTAGAAAGCCTTTTACAAAATAAAAAAA
AATAGATGTGCATTCACTTTTAAAGAAATGGAATCATCCAAAGGAATTCCTTTTTTTGAGGTTTGATGTTGCAGC
TAGTAAAGGATATTTTTGCTCTGTTTCAGCAGTTCTAAAAATTGCTGAAGTAGGGGCCAGGTCAGTGGTAGTTATA
GTATGGAATGGGAGAAGTGAAGTTTCAGTTATAGAACTTCCATACTTCCAAGTTTACTGCAAGTTTTTATGCTT
GAGAGAGATGCTTTCTAATATAAGACTGATGTGTTGATTTTACTGATTGTACTGTACATCTATTAAAGCCTTAGA
TTATTACATTACGGGTTGGAACCCATACCAATGTAATTTCAATCGTGTTAAGAAAGTAATGGTGACTTCACATGT
TATTGTAGTTAGTTACATTATAGAATATTACTTATTTTTCTTGTTAAATGTAGTTTTTTCATTTCCTACATTTAT
TAGATTTTCATTTTCTATTAACAATTTGAATACCATTTCAGTTTATAGACTGTGTTTTATTAGATTTTACCAATGAA
TTTTTCAAAATACAAAAAAGTAGTTTTTCTTCATAACATACTCAGTTTGAATTACATGTAGTGTCCATGTA
ATATTCGTATTGTTTAACTAAATGATTTTATATTTTACTGATTTAATATTACAGTGTAAGAATGTCAGTGCATGTTA
GTTCCTGTCTAGTTTTCTATTAAGAAAGAAAGACTCTTTTATATGGATATCTTATAAATATATAATCATTGCTAAG
TAAGAAGTTAAGTTGTTGCTATCGCAACAATCCTGGCAGACAATTGAGTAATATTTTGATGATTTATTTTGTTTG
TAATTAGTTATTATAAGAAGATCTAGATCCTAGATATTAGAATAAAATTTATTTTCTACTGTATCCATTTCAAAT
GTTAAAAATATTGTTTAAATATTTTTGAAATCCCTGAGTATCAGGCCTTGTATATAAATAAGCTGCATAATCAATAAA
TAGAACAAGGGACTTTTTGTTGATAATCCAAATACTCAAAGTTTACGTAATGAAAATTATAGCGTGTGTGCAAAAC
TCTTGAGGGTTGATTATGCTGCAATTTAGCATGTTGGAACGTCTAGGGAGAAGGTTGACTTTTTGCACCTTCTGTA
TATAGTCAAAGAGAGAAAACCTGTATAATAGTAAGATCTTATTTTGAATAAAAACGTCTATAATTACAAGGAGTT
TTGTTAAGGCTAATACAATGACAGACTGAGCAAAATTGCTTGCAAAAGTGGCACAGAGTTAGCACTCCATACCCC

1385/6881
FIGURE 1288B

TTCAAACATGTTGCTTTGCTTTCTTGTGGACAGCTTGTAGTTTGCCAGGATTTTTTCAGCTGGAAAGATACGCCA
TCCTTTCAAACCCCTCATGACTGACAAAACTCCATGGGGCCAAATCTGCCTGAAGATCATTACCAAAAATAGCAG
GTACTTCTACCATTAAGGTGAAATCATGGATCAGATATTCCTTACATTTTTCAAACACTACTGCATGTTTAAACT
TCAACAAAAAAGAGAGAAAGAACTATACTAAGAACATATATTATTCAGATCAGTTTCTGCCAATTTCAGTGGTT
TATTGTTCAAAAAAATCTTCAAACAAGTATTGACTTTCACAAAATTTAAATCATAAACAGGCAAACCAAACA
GCACACTGTAGCTATAGTTGTTATGTGATTGTTTTTAATTGCTGTAGGATCCTGTTCTTTCAGCAGGTGAAAAA
TAAACGCAGTTCAAATTTTCATGGTTTTTAATTTTCAACTCAGAAGCACTCAAAAATGCAAATGTGATAATGGGC
ACTTGTTTAAAAGAATTAGTGTATCCAGCCTTCACTCCAGCTGGTTAAAAATGTTGCACTTATCAGCAACCCTAC
CACTTTCATCTGCTGAAAGGACAAATGTGCTTGGTTTTACTATTATGTAATCACAACCTACTTTCTGCTTGTAGT
TGCTTAAATATATGTTTTGTCTTGGGCTGCAATTTGTTTTATGCTTATTTTATTATTACTGCAGTAGTTGACT
TTGCTGTATGAAAAATAAAGTGAAATTGCCCTAATAAACTTCTCTTTCTTAAGT

1386/6881
FIGURE 1289

ATGTGGAGAAAGCCAGGGGACCCACAGAAGGCTGCCTGTGGCCACGTCATAGCAAAGGAACTTTATGGAGAGGAG
CAGGAAGTCAGAGAGCCAGCTGAATTCAAGAATCTGATAGGAGAGAAGATGTCAGTCCCTCTGGAAGAAGTTAGC
AAAGTTGTGGCCTTGAATGGGAAGGGACAGAAGAGAGGTTTCAGGGTTCGAGGCTGAGGCAACAGGAACTGCCTG
GAATGGAACTTGCCAAGGGGGATAGGAGGTGCAGGCCGGGGCCTCTTGGGAGAAAGAGCTGCACCATCTTCCAAC
ACCTGTGGGAATGCTGTCTTGAACAACACTGCAGCAGCCAGTCATGAGCCAAGGAAGCAGACAAGAGCAACGAACA
CAGGCATTGTGCATACAGACCTACCCAGAGAAGCCAGTATCCATGGCTTTGGAGAGTTCAAATATTCAATTTTCC
GTTCAAAAAAAGGCCACGCCACCGGCTAAGAGTTCCGCCAGGGGCCAGCTCTCAGGAGGCCTCTTCGGTGCCGC
CAGCCTCCCGAAGTCATCCAAGGTAGCAGGCAAATCCGGCAGCAGCAAACCTAGCTCGGATTCGGCTTCGGTTTTT
CTCCTGGCCGGCGCCACAGGCCCTCTCCCGGGCGGGCTCCTCGGCCTCCTTCTCAACCTCAGCCCGCGGCGC
CGACCTTCCGGCACCTCCCGCCCCGTCTCGTACTGTGCGCGTCACCGCCGCGGCTCCGGCCCTGGCCCCGATG
GCTCTGTGCAACGGAGACTCCAAGCCTTGGGCTCCGCGGCGGTTAGGCCGCTTCTGGACGAACCCCTCGGAGCTG
CACTGTCTTCCCCCTCCCCAACGCCCTGCAGGCCCGCGTGAGGGCTGGTGGCCCCAGGGTCGCGCACTCCGTT
CTCCCTCCCCGCTTCCTTCTCAGAGAGGAAAGGGTGTGTGTCCAGGTCCCGCCTCCGTCCAGCTTGCTCCCTGTC
GAGCTTGCTGGTTTTCGGGGTAACCCGCTTCCCGCCTTTGGGGTCCCTCCCCGGGACGCGAGCCGTGCCAGCTC
GCCCAGGCCCTGGGCAGTCCGGAGTTCCGGAGTGCTGGAAAAGTTGCCGCCTTGACGTACCCGGCGGGGAGAGCA
CGTTTGACCGCTGCTGCTCATCTCTCCTCCAACCTCACTTTTCTTAGACCGTTCCTCTTACTTTCGTCCCGCTTT
GAATTGGGCACCTTCGCTTTCACCTCTGTATTAAATTTTCATTGGCCTGGAGTTCTTTCTGA

1387/6881
FIGURE 1290

AGGCATAGCAAATGAATCTAAAAAGTTATATGGAGCACAGTTCCACCCTGAAGTTGGCCTTACAGAAAATGGAAA
AGTAATACTGAAGAATTTCCCTTTATGATATAGCTGGATGCAGTGGAACCTTCACCGTGCAGAACAGAGAACTTGA
GTGTATTTCGAGAGATCAAAGAGAGAGTAGGCACGTCAAAAGTTTTGGTTTTACTCAGTGGTGGAGTAGACTCAAC
AGTTTGTACAGCTTTGCTAAATCGTGCTTTGAACCAAGAACAAGTCATTGCTGTGCACATTGATAATGGCTTTAT
GAGAAAACGAGAAAGCCAGTCTGTTGAAGAGGCCCTCAAAAAGCTTGGAAATTCAGGTCAAAGTGATAAATGCTGC
TCATTCTTTCTACAATGGAACAACAACCCCTACCAATATCAGATGAAGATAGAACCCACGGAAAAGAATTAGCAA
AACGTTAAATATGACCACAAGTCCTGAAGAGAAAAGAAAAATCATTGGGGATACTTTTGTAAAGATTGCCAATGA
AGTAATTGGAGAAATGAACTTGAAACCAGAGGAGGTTTTCCCTTGCCCAAGGTACTTTACGGCCTGATCTAATTGA
AAGTGCATCCCTTGTTGCAAGTGGCAAAGCTGAACTCATCAAAACCCATCACAATGACACAGAGCTCATCAGAAA
GTTGAGAGAGGAGGGAAAAGTAATAGAACCTCTGAAAGATTTTCATAAAGATGAAGTGAGAATTTTGGGCAGAGA
ACTTGGACTTCCAGAAGAGTTAGTTTCCAGGCATCCATTCCAGGTCTGGCCTGGCAATCAGAGTAATATGTGC
TGAAGAACCTTATATTTGTAAGGACTTTCCTGAAACCAACAATATTTTGAATAAGTAGCTGATTTTTCTGCAAG
TGTTAAAAAGCCACATACCCTATTACAGAGAGTCAAAGCCTGCACAACAGAAGAGGATCAGGAGAAGCTGATGCA
AATTACCAGTCTGCATTCACTGAATGCCTTCTTGCTGCCAATTAATACTGTAGGTGTGCAGGGTGAAGTGTGCTC
CTACAGTTACGTGTGTGGAATCTCCAGTAAAGATGAACCTGACTGGGAATCACTTATTTTTCTGGCTAGGCTTAT
ACCTCGCATGTGTCAACGTTAACAGAGTTGTTTATATATTTGGCCCAAGCTTAAAGAACCTCCTACAGATGT
TACTCCACTTTCTTGACAACAGGGGTGCTCAGTACTTTACGCCAAGCTGATTTTGAGGCCCATACATTCTCAG
GGAGTCTGGGTATGCTGGGAAAATCAGCCAGATGCCGGTGATTTTGACACCATTACATTTTGATCGGGACCCACT
TCAAAAGCAGCCTTCATGCCAGAGATCTGTGGTTATTCGAACCTTTATTACTAGTGAAGTTCATGACTGGTATACC
TGCAACACCTGGCAATGAGATCCCTGTAGAGGTGGTATTAAAGATGGTCACTGAGATTAAGAAGATTCCCTGGTAT
TTCTCGAATTATGTATGACTTAACATCAAAGCCCCCAGGAAGTACTGAGTGGGAGTAATAAACTTC

1388/6881
FIGURE 1291

GACCCTTTTACAAACATGGCGCCGAAAGCGAAGAAGGAAGCTCCTGCCCCCTCCTAAAGCTGAAGCCAAAGCGAAG
GCTTTAAAGGCCAAGAAGGCAGTGTTGAAAGGTGTCCACAGCCACAAAAAGAAGAAGATCCGCACGTCACCCACC
TTCCGGCGGCCGAAGACACTGCGACTCCGGAGACAGCCCAGATATCCTCGGAAGAGCGCTCCCAGGAGAAACAAG
CTTGACCACTATGCTATCATCAAGTTTCCGCTGACCACTGAGTCTGCCATGAAGAAGATAGAAGACAACAACACA
CTTGTTTCATTGTGGATGTTAAAGCCAACAAGCACCAGATTAAACAGGCTGTGAAGAAGCTCTATGACATTGAT
GTGGCCAAGGTCAACATCCTGATTTCGGCCTGATGGAGAGAAGAAGGCATATGTTGACTGGCTCCTGATTACGAT
GCTTTGGATGTTGCCAACAAAATTGGGATCATCTAAACTGAGTCCAGCTGCCTAATTCTGAATATATATATATAT
ATATCTTTTCACCAT

1389/6881
FIGURE 1292A

GATGAAGAGGAAGAAATCAAACAAGAAATTAACATGTTGAAGAAATATTCTCATCACCGGAATATTGCTACATAC
TATGGTGCTTTTATCAAAAAGAACCACCAGGCATGGATGACCAACTTTGGTTGGTGATGGAGTTTGTGGTGCT
GGCTCTGTCAACGACCTGATCAAGAACACAAAAGGTAACACGTTGAAAGAGGAGTGATTGCATACATCTGCAGG
GAAATCTTACGGGGGCTGAGTCACCTGCACCAGCATAAAGTGATTCATCGAGATATTAAAGGGCAAAATGTCTTG
CTGACTGAAAATGCAGAAGTTAACTAGTGGACTTTGGAGTCAGTGCTCAGCTTGATCGAACAGTGGGCAGGAGG
AATACTTTTCATTGGAATCCCTACTGGATGGCACCAGAAGTTATTGCCTGTGATGAAAACCCAGATGCCACATAT
GATTTCAAGAGTGACTTTGGTCTTTGGGTATCACCGCCATTGAAATGGCAGAAGGTGCTCCCCCTCTCTGTGAC
ATGCACCCCATGAGAGCTCTCTTCTCATCCCCCGGAACCCAGCGCCTCGGCTGAAGTCTAAGAAGTGGTCAAAA
AAATTCAGTCATTTATTGAGAGCTGCTTGGTAAAGAATCACAGCCAGCGACCAGCAACAGAACAATTGATGAAG
CATCCATTATACGAGACCAACCTAATGAGCGACAGGTCCGCATTCAACTCAAGGACCATATTGATAGAACAAAG
AAGAAGCGAGGAGAAAAAGATGAGACAGAGTATGAGTACAGTGGAAGTGAGGAAGAAGAGGAGGAGAATGACTCA
GGAGAGCCCGACTCCATCCTGAATCTGCCAGGGGAGTCGACGCTGCGGAGGGACTTTCTGAGGCTGCAGCTGGCC
AACAAGGAGCGTTCTGAGGCCTACGGAGGCAGCAGCTGGAGCAGCAGCAGCGGGAGAATGAGGAGCACAAGCGGC
AGCTGCTGGCCGAGCGTCAGAAGCGCATCGAGGAGCAGAAAGAGCAGAGGCGCGGCTGGAGGAGCAACAAAGGC
GAGAGAAGGAGCTGCGGAAGCAGCAGGAGAGGGAGCAGCGCCGGCACTATGAGGAGCAGATGCGCCGGGAGGAGG
AGAGGAGCGGTGCGGAGCATGAACAGGAATACATCAGGCGACAGTTAGAGGAGGAGCAGAGACAGTTAGAGATCT
TGCAGCAGCAGCTACTGCATGAACAAGCTCTACTTCTGGAATATAAGCGCAACAATTGGAAGAACAGAGACAAG
CAGAAAGACTGCAGAGGCAGCTAAAGCAAGAAAGAGACTACTTAGTTTCCCTTCAGCATCAGCGGCAGGAGCAGA
GGCCTGTGGAGAAGAAGCCACTGTACCATTAACAAGAAGGAATGAGTCTTAGTGAGAAGCCAGCATGGGCCAAGG
AGGTAGAAGAACGGTCAAGGCTCAACCGGCAAGTTCCCTGCCATGCCTCACAGGTTGCCAACAGGATATCTG
ACCCCAACCTGCCCCCAAGGTGCGAGTCTTTCAGCATTAGTGGAGTTCAGCCTGCTCGAACACCCCCCATGCTCA
GACCAGTCGATCCCCAGATCCCATCTGGTAGCTGTAAATCCCAGGGACCTGCCTTGACCGCTCCAGTCAG
TGCACGAGCAGCCACAAAGGGCCTCTCTGGGTTTCAGGAGGCTCTGAACGTGACCTCCCACCGCTGGAGATGC
CACGCCAGAATCAGATCCCACTCGGAAAATCCTCTCTCCCCACTCGCATTGAAAAGTTTGACCGAAGCTCTT
GGTTACGACAGGAAGAAGACATTCCACCAAGGTGCCTCAAAGAACAATTTCTATATCCCCAGCATTAGCCAGAA
AGAATTCTCTGGGAATGGTAGTGCTCTGGGACCCAGACTAGGATCTCAACCCATCAGAGCAAGCAACCCCTGATC
TCCGGAGAATGAGCCCATCTTGGAGAGCCCTTGCAGAGGACCAGCAGTGGCAGTTCTCCAGCTCCAGCAGCC
CTAGCTCCAGCCAGCTCCCAAGGAGGCTCCAGCCTGGATCACAAGCAGGATCCAGTGAACGACCAAGGATTC
GAGCCAACAGTAAGTCAGAAGGATCACCTGTGCTCCCCATGAGCCTGCGAAGGTGAAACCAGAATCCAGGG
ACATTACCCGGCCAGTCGACCAGCTAGCTACAAAAAGCTATAGATGAGGATCTGACGGCATTAGCCAAAGAAC
TAAGAGAACTCCGGATTGAAGAAACAACCGCCCAATGAAGAAGGTGACTGATTACTCCTCCTCCAGTGAGGAGT
CAGAAAGTAGCGAGGAAGAGGAGGAAGATGGAGAGAGCGAGACCCATGATGGGACAGTGGCTGTACGCGACATAC
CCAGACTGATACCAACAGGAGCTCCAGGCAGCAACGAGCAGTACAATGTGGGAATGGTGGGGACGCATGGGCTGG
AGACCTCTCATGCGGACAGTTTCAGCGGCAGTATTTCAAGAGAAGGAACCTTGATGATTAGAGAGACGTCTGGAG
AGAAGAAGCGATCTGGCCACAGTGACAGCAATGGCTTTGCTGGCCACATCAACCTCCCTGACCTGGTGCAGCAGA
GCCATTCTCCAGCTGGAACCCCGACTGAGGGACTGGGGCGCGTCTCAACCCATTCCAGGAGATGGACTCTGGGA
CTGAATATGGCATGGGGAGCAGCACCAAGCCTCCTTACCCCTTTGTGGACCCAGAGTATACCAGACGTCTC
CCACTGATGAAGATGAAGAGGATGAGGAATCATCAGCCGAGCTCTGTTTACTAGCGAACTTCTTAGGCAAGAAC
AGGCCAAACTCAATGAAGCAAGAAAGATTTTCGGTGGTAAATGTAAACCAACCAACATTTCGGCTCATAGCGACA
CACCAGAAATCAGAAATACAAGAAACGATTCAACTCAGAAATACTTTGTGCAGCTCTGTGGGGTGTAAACCTTC
TGGTGGGGACTGAAAATGGCCTGATGCTTTTGGACCGAAGTGGGCAAGGCAAGTCTATAATCTGATCAACCGGA
GGCGATTTACAGCATGGATGTGCTAGAGGCTGAATGTCTTGTGACAATTTTCAGGAAAGAAGATAAGCTAC
GAGTTTACTATCTTTTACGGTTAAGAAACAGAATACTACATAATGACCCAGAAGTAGAAAAGAAACAAGGCTGGA
TCACTGTTGGGGACTTGGAGGCTGTATACATTATAAAGTTGTAAATATGAAAGGATCAAATTTTTTGGTGATTG
CCTTAAAGAATGCTGTGGAATATATGCTTGGGCTCCTAAACCGTATCATAAATTCATGGCATTAAAGTCTTTTG
CAGATCTCCAGCACAAAGCCTCTGCTAGTTGATCTCACGGTAGAAGAAGGTCAAAGATTAAAGGTTATTTTTGGTT
CACACACTGGTTTCCATGTAATTGATGTTGATTACAGGAACTCTTATGATATCTACATACCATCTCATATTACAGG
GCAATATCACTCCTCATGCTATTGTCATCTTGCCATAACAGATGGAATGGAATGCTTGTGTTGCTATGAGGATG

1390/6881
FIGURE 1292B

AGGGGGTGTATGTAAACACCTATGGCCGGATAACTAAGGATGTGGTGCTCCAATGGGGAGAAATGCCCACGTCTG
TGGCCTACATTTCATTCCAATCAGATAATGGGCTGGGGCGAGAAAGCTATTGAGATCCGGTCAGTGGAAACAGGAC
ATTTGGATGGAGTATTTATGCATAAGCGAGCTCAAAGGTTAAAGTTTTCTATGTGAAAGAAATGATAAGGTATTTT
TTGCATCCGTGCGATCTGGAGGAAGTAGCCAAGTGTTTTTCATGACCCTCAACAGAAATTCATGATGAAGTGGT
AACAGAAGAGCACTTGGCACTTATCTTCATGGCGTTATTTCTAATTTAAAAGAACATAACTCATGTGGACTTATG
CCAGTCTAGAGGCAGAAATCAGAAGGCTTGTTGAACATATCGCTTTCCCTTTTCTCTCCCTCCGCCCTCCCA
GTACAGTCCATCTTTCAATGTTGCGAGCTGGTTGAGAAGGAGAGAAAAAGGTGGCAGGAATTTCCAGGAGATCCC
CAAGAATGCTGCCTTGCTGTGGACAAAGATGGACCATGTGCCCTTCGGAATTAGGGATAGAAACAAATATTGTG
TGCTCTTAACGATTAAGCTGTGTTATGGTGGGTTTTTCAGGTTTTTACCTTTTTTCTTTACCCCTTTACTCTGCAA
GAATGGGGAAAGAATGCATACTGCGAAAATGAGTCTTTTAAATTCTGTCTGCCTACTAGTTTTAAGTATATGGTA
TGTTGTAAAATTTCCAATGATGAGAGACAGCACATAAATGTACCTTATCTCCTTAGGCTGAAGGCCATAACTAC
ATAGTGGAGTAATTTAAGAACTCTCTTGCCCTTACCAACCCAAAAGGTTGCTTTTTGATAGCAACTGGCTAATGA
ATTTTAAAAAGAGAAGAAAAATACTAGTTTTCCCTCTTTTGGGAAATAGATTTTAAATGGCTAAACTACTAGC
CTTAAACTACTAGTCTAATAAAATCAACTACCCTTTTGTGAATCTGACAGGCCACATTTTTATATGGCCCTTT
ACAGAATGGAGTGTGTTGAACAGGATACTAACGCCATTGAGTTGAGCTGGCCTAGCGATGGAGGGACACTCTAAC
ACAACCTTTCCCTCAGCTATTATGCAACAGATCAGGGAAGAAAGATGGGATGACAGATGGGGTCAGACAGAAAGAGC
TTCTGGGAAACAAGCTTACATAGTCTTTTTTAAATGCACAAAGCCTCCCAGCTAAGAGGTCACTTGGTTTGGGC
TTCATTAGGACTGAGACTTTGTTGAGTTCTTCTGGGACTTGGAGAGTGGATGATATTCAGGCTCTGAACATTCC
CAGCGCTCTCCCGAGGGTGCCACTTTCTCAAGATGAAAAGTGTGACTGAAAAAATTAATAATAAATGTTTCTGAG
CTGCCCTGTGTTCTCCCTGTGTGGGTGAGAGAAGGGACTAGACTCCTAAGCCTGCCTCAGATACAAGAGGCATCAT
TGGCTCCAATTTTAGAGAACTTGAAAGCAAGGCTTTGGACAAAATTTTGGAGCCCTAATCACTTTACCTTCCTCC
AAATTACCCAACATACGGTAAACAACATTTGTGCAGAAGTATGTATGTATTTAGTTTCAGGTTGACTTGTGTCCTT
ATAAATCTTACTCAAATGATTTGAACCTT

1391/6881
FIGURE 1293

MPHKVANRISDPNLPPrSESFSISGVQPARTPPMLRPVDPQIPHLVAVKSQGPALTASQSVHEQPTKGLSGFQEA
LNVTSHRVEMPRQNSDPTSENPPLPTRIEKFDRSSWLRQEEDIPPKVPQRTTISIPALARKNSPGNGSALGPRLG
SQPIRASNPDLRRTPILESPLOQTSSGSSSSSSSTPSSQPSSQGGSQPGSQAGSSERTVRANSKSEGSFVLPHE
PAKVKPEESRDITRPSRPASYKKAIDEDLTALAKELRELRIEETNRPMKKVTDYSSSSEESSEEEEEEDGESET
HDGTVAVSDIPRLIPTGAPGSNEQYNVGMVGTHGLETSHADSFSGSISREGTLMIRETSGEKKRSGHSDSNGFAG
HINLPDLVQQSHSPAGTPTEGLGRVSTHSQEMDSGTEYGMGSSTKASFTPFVDPRVYQTSPTDEDEDEESSAAA
LFTSELLRQEQAKLNEARKISVVNVNPTNIRPHSDTPEIRKYKKRFNSEILCAALWGVNLLVGTENGLMLLDRSG
QGKVYNLINRRRFQQMDVLEGLNVLVLTISGKKNKLRVYYLSWLRNRILHNDPEVEKKQGWITVGDLEGCIHYKV
KYERIKFLVIALKNAVEIYAWAPKPYHKFMAFKSFADLQHKPLLVDLTVEEGQRLKVIFGSHTGFHVIDVDSGNS
YDIYIPSHIQGNITPHAIVILPKTDGMEMLVCYEDEGVYVNTYGRITKDVLQWGEMPTSVAYIHSNQIMGWGEK
AIEIRSVETGHLDGVMHKRAQRLKFLCERNDKVFFASVRSGGSSQVFFMTLNRNSMMNW

1392/6881
FIGURE 1294

GGGGGCAAAAAAAGAAGCAAGTTCTGAAGTTCACCTCTTGATTGCACCCACCCTGTAGAATCATGGATGCTGCCA
ATTTTGAGCAGTTTTTGCAGAAAGGATCAAAGTGAACGGAAAAGCTGGGAACCTTGGTGGAGGGGTGGTGACCA
TCGAAAGGAGCAAGAGCAAGATCACCGTGACATCCGAGGTGCCTTTCTCCAAAAGGTATTTGAAATATCTCACCA
AAAAATATTTGAAGAAGAATAATCTACGTGACTGGTTGCGCGTAGTTGCTAACAGCAAAGAGAGTTACGAATTAC
GTTACTTCCAGATTAAACCAGGACGAAGAAGAGGAGGAAGACGAGGATTAAATTTCAATTTATCTGGAAAATTTGT
ATGAGTTCTTGAATAAAACTTGGGAACCAAAATGGTGGTTATCCTTGTATCTCTGCAGTGTGGATTGAACAGAA
AATTGGAAATCATAGTCAAAGGGCTTCCCTTGGTTCGCCACTCATTATTTGTAAGTTGACTTCT

1393/6881
FIGURE 1295

ATGAAGAGAGTGTCTCAGCAGAGGTCGCCTCCAGAGGAGGTGCTGTGGAGACTGAGCGCATAGCACCCCTTAAATCC
TGGGACCAGGGCTTCTCCACGGGCTTGCTGAAGAAGGGAGAAAAAGAACAGCAAGAAGCGATTGAACACATTGAT
GAAGTACAAAATGAAACAGACAGACTTAATGAACAAGCCAGTCCCCCTTACAAAGAAACAGACAGATGATTTAGGT
GATAATGACGGTGCTGAAGATGAAGATATTCGGGACAGTGGGGGTCCCAAACAGTGATGGTGTATATCCATGGT
GGCTCATATATGGAAGGTACTGGAAATTTATATGATGGAAGTGTCTTGGCAAGTTATGGCAATGTGATCGTTCATC
ACAGTCAACTATCGACTTGGAGTACTCGCTCTACATCCGAGTTATGATTCAGGAGCCACTGGGCAGGAAAATGTG
AGGACACAGAGGAAGCTGACTGAAGCAGGTAGACGAGAAGAGGAAACGGGTTGTGCGACGGCGGGGGTCTGCTGCC
CGTCTGTCCGTCGGCTTCTCCAGCGGTAAAAGGAGAGCTGATGGAACGTGAATCAAATCGAAGGTGAAGCCACC
CCAGTTAACCTCACAGAGCCTGCCAAGCTGGAAGTTAAGTTTCTCTGGTCACATAATTATCTGTCAAACACTTAC
TACATGTCACGCACTAAGGTTGCCATGATGAGCCGGACAGAGCTGGCCTTGGTACTTATGGAGCTCATTCCAGT
GTGGATACTGACACGTGA

1394/6881
FIGURE 1296

TATTTTGTGATGTGTTGAACCTCGATTAAAGATTGCATTATGACATTCTTGAAGACCGAGTTCCATCAGGACTT
ATTGTTGACTACCACAATCTGTTGTCTCAATGTGAGGAGAGTTACAGGAAATTTTAAATCTGAGAAGCAGTTTG
TCAAATTGTAACCTGATTCCGAGCAGGAAAATATCTCCATGGTGAAGGGTTAAATTTGATTTCGGAGATGGAA
CAGTTGAAACAAAAGCTGAAACTCATTGAGAATCCTTTGTTGAGGTATGTGTTTGGTTATCAGAAGAATTCTAAC
ATCCAAGCAAAGGGTGTCCGTTCCAGCGGTGAGAAGATCACTCATGTGGTCTCCTCCACCATGATGGCTGGTCTC
CTGCGGTCCCTGCTTACGGACAGGCTTTGCCAGGAGCCTGGTGAGGAAGAAAGAGAAATTCAGTTCCATAGTGAT
CCATTGCTGCTATAAATGCCTGCTTCGAAGGTGACACTGTTATTGTTTGTCTGGCCATTATGTGGTACATGGC
ACTTTCTCCATTGCTGACTCCATTGAGTTGGAAGGATATGGCCTACCAGATGACATTGTGATAGAAAAGAGGGGC
AAAGGCGACACTTTTGTGGACTGCACTGGTGCTGATATAAAATCTCAGGCATAAAATTTGTTTCCAGATGATGCT
GTAGAGGGAATCTTAATTGTTTACCGTGGTAAGACTACGCTGGAAGAACTGTGTGCTGCAGTGTGAGACGACCGGA
GTCACAGTGCGGACATCAGCAGAGTTTCTAATGAAGAACTCGGATTATATGGCGCCAAGGGTGCTGGTATAGAA
ATCTACCCTGGGAGTCAGTGACCCCTGAGTGACAATGGGATCCATCACTGCAAGGAAGGGATCCTCATTAAAGGAC
TTCTTAGATGAACATTATGACATTCCCAAGATATCCATGGTGAATAATATAATACATAAATAAGGTTATGGT
GTTGTCTTGGTGAACCTACAATCTTCTCTGACCTGCAAGAAAATGCTGAAGATGGAACGAAGAAAATAAGCG
CTTAAATTCAGACAAGTGGAGAGCCAGATGTGGCTGAAAGAGTGGATCTAGAAGAGCTGATTGAGTGTGCAACT
GGTAAATGGAGCTTTGTGCAAGAACTGACCCTTCTGAGCAAGTCGAGGGAATTTGTGAAATTGTAAATGAACTA
ATTGCTGCCTCCACAGAAAGGCCAGATAAAGAAGAAAAGGTTGAGTGAAGTGGGATCAGCAAGCTGATGAC
AACTTAATGTCACAGGAGATGTTTGTGGGATTGTGGGAACCAAGTCAAGTGAATGGGAAAGGTAGTTTTGGC
ACATTTCTTTTCTGACTACAGTGATGTAAGTAGATAGCAAAATACTGGATTTTGCACATGCTGCCCTAAGAAATCA
CTGCTGCCATTGTAGTTTGTCTGTATTGTCTGATTTTATATTGATTATTTGGGCTTGAGTGAAAGGTAGATTTA
TTTCCATTTGCAGGTGTGACATAAAACACTCCCTCTTTATAAGAAAATCATAAATGCATATAAAATAGAAAA
TATTTGGAGATTGCTTATCTGAAAGTCTTGCTTTCTTATACACATGGTTCTCTCATATTAAGCCTGGTAGTAACT
TTTTAGTGAATTACCTTTAGCACTTCAAAGACGAGGAAGTAAGGAAGGGAATGCAAGACTAGTGCAATAAAATG
CAATAGGTGTCTATGTACAGCATTCTTCTTAGAGTTGCCTTTTTCATCCCAATTACAGTGAGTCTGATTTCCATC
CTGTATTTGCATAAATACTTGTCTTAAATAAAAGCTTTTATGATTGGGAATTTATCTGCCTAATCAGACTTATTA
TTGAGACGTCAATGGGACGCATTTTTCTGTTGAGCTATGCAGTCGTCAAAACAGCGATAGACAGCATAGGAGGTT
TGAAGCAGAAATGAAATGTGTTATTTCAGAGCCAATGTTGTACATAGAGCATTTCCTACTATTGCTGAATGGGAATG
ATTAACAAACAAGGTATTTTCGGGCCAGGCGGTGGCTCACGCTTGTAAATCGCAGCACTTTGGGAGGCTGAGGCAG
GAGGATCACTTGAGCCAGGAGTTCAAGACTAGCCTAGGCAACATAGTGAGACCCTGTCTCTACTAAAAATAAAT
TTAAAAAAATTAGCTGAGTGTGGTGGTGCATGTGATTGCCACTGCTCAGGAGGCTGAGGCTAGAGGATCC
TTGAGCCAGGAGGTTGAGGCTGCAGTGAGGTGTGATTGCCCACTGCTCAGGCTTGGGCGACAGAGCGAGAC
CCAGTCTCAAAAAAAAAAAAAAGTATTTTCTCTTACCCTTACAGTATTCTGATTATATTACTGACACAGTCAAA
ATGATTAAGTGTACAACCTGTATCTGCTGGGTGTTCTTGTATCATATTGTAAACAGCTTTAAAAATATTTATA
TTTTAAAACTGTATGTGACATTAATATGCCTAATGATTAAATATAGTGATGAAATAACAAAA

1395/6881
FIGURE 1297

GTAGCCATGGCGGCCATGAGTTTGTTGCGGCGGGTTTCGGTTACTGCGGTGGCAGCTCTGTCTGGCCGGCCCCCTT
GGCACTCGCCTCGGATTTGGGGGCTTCCTCACTCGTGGCTTTCCGAAGGCTGCTGCTCCTGTTGACACAGTGGA
GACCATGGGAAAAGACTATTTGTCATCAGACCTTCTAGATTCTATGACAGGCGTTTTTTGAAGTTATTGAGATTC
TACATTGCATTGACTGGGATTCCAGTAGCAATTTTCATAACTCTGGTGAATGTATTCAATTGGTCAAGCTGAACTA
GCAGAAATCCAGAAGGCTATGTCCCAGAACACTGGGAATATTATAAGCATCCCATATCAAGATGGATTGCCCGT
AATTTCTATGATAGTCCTGAAAAGATATATGAAAGAACAATGGCCGTCCTTCAGATTGAAGCTGAAAAGGCTGAA
TTACGGGTAAAGGAGCTGGAAGTGCAGAAATTGATGCATGTGAGAGGAGATGGACCCTGGTATTACTATGAGACA
ATTGACAAGGAACTTATTGATCATTCTCCGAAAGCAACTCCTGACAATTAAGCCTTTTTTCTCCAAATACAAAG
TATATTCTCTTTATTGGAAAATAAATTAATAAATATATTCTGTATTTTGGCTCTCCGTGAAAACAAAAGAGCCT
CTGACATTACTGTCTCTCAGTGTGGTTTCAGATTGAGGCTTTTGTGTTGAGGAGTTGGCTTCCAGTCCCCAAAGA
AGGTTTAAATGTACTAATAAAAACTGGAGAAATAGGAATTTGTGAACCCCTAAAATTGTAGCAACTTTGAAAGG
TTAGTGTTTTATTACCTGACAAATGGAAGTTATAGAAGTCTAATAATGTTAAGCACCAGTAATTATAGTATTTT
GTACAAATGCCTGTACTGTAGATGTCTGTATTATTGAGGGGCAACTCAGGATTTTAAGTCCATAAAGTATTGAA
CCAACCTCTAAATGTAACTCCTTAATAAACAGATTCTCAGTAAACAAATTTTAAAGTTAAAAAAAAAAAAAAAA

1396/6881
FIGURE 1298

MAAMSLRRVSVTAVAALSGRPLGTRLGFGGFLTRGFPKAAAPVRHSGDHGKRLFVIRPSRFYDRRFLKLLRFYI
ALTGIPVAIFITLVNVFIGQAEIAEIPGYVPEHWEYKHPISRWIARNFYDSPEKIYERTMAVLQIEAEKAELR
VKELEVRKLMHVRGDGPWYYYETIDKELIDHSPKATPDN

1397/6881
FIGURE 1299

GTTTTGCCAGTTATGCGAAAACATGGCTGCGGCCGGTTTGGCCCTTCTTTGTAGGAGAGTTTCATCCGCCCTGAA
ATCTTCCCGATCGTTAATAACTCCTCAGGTCCCTGCCTGCACAGGGTTTTTTCTTAGTTTGTTCCTAAGAGTAC
ACCAATGTGACATCCTTTACCAATATAGATTACTTCATACCACATTGTCAAGGAAAGGACTAGAAGAATTTTT
TGATGACCCAAAAAAGTGGGGCAAGAAAAAGTAAATCTGGAGCAGCATGGACCTGTCAGCAACTAAGGAACAA
AAGTAATGAAGATTTACACAACTTTGGTATGTCTTACTGAAAGAAAGAAACATGCTTCTAACCTAGAGCAGGA
GGCCAAGCCGCAGAGATTGCCAATGCCAAGTCCAGAGCGGTTAGATAAGGTAGTAGATTCCATGGATGCATTAGA
TAAAGTTGTCCAGGAAAGAGAAGATGCCCTAAGGCTTCTTCAGACTGGTCAAGAAAGAGCTAGACCTGGTGCTTG
GAGAAGAGACATCTTTGGAAGAATCATCTGGCACAAGTTCAAGCAGTGGGTTATACCTTGGCACCTAAATAAAAG
ATACAATAGGAAACGATTCTTTGCCTTGCCTTATGTGGACCATTTTCTCAGACTGGAACGTGAGAAACGAGCCCG
CATCAAAGCACGGAAGGAAAAATTTAGAGAGAAAGAAAGCAAAAATCTTTTAAAAAAGTTCCACATCTTGCTGA
AGCCCAAAAGTCAAGTCTTGTCTAAGATGTCTGAACTATTAAATTTACCATTTTGTCTTCTGAATAGTCTGTG
TACAGGAGTAAATATGTTAAGTGGTTTATAAAGAAATCTGTTTTTAGTCAAGTGAAGTCTTACTAATCAGTTGTTT
TAAGTGTGAATATGGCATGCTAATTAGCTAATTTGGTAGAAGCTAATTTGCTTCTAAAAATCAGGTATAAAGTTC
AGATGAGATTCCCACTTTATAAATCTGACATTTAAGCAGGCTTTAAATGTCACCTGCTACCTTAGAGTGTGAAG
GTGATGGTAACTGCCACAGCAAAGGCAATACCGTAGTTTTTGAATTTGAATAATAGTTTACCTCTGTTGTTAAT
AGGCTATGAAGAGGATGTGGGTATTGCTGTTAATAAACGGAGGACTTTGATTCAAATAATGAGAAATACATTTA
GTCCTTAAAGTAGTAATCACAGTGCACAACAGTCCAAAATATATTCTGGAATGGCTAATTTTATTTAATCTG
TAAGCCTAAGGTAAGCAATAGGCAGTAACCTTTACTAGTCAATAAAAAGCAGTTCTACCAATCCACTGGTAAT
TAATACACTAAACAGAGTTGGAAAGCATTTTACTGAAAGCAAAATATTTAGAGAAAATAGACATTTATACAAAAT
TATAAATGCTTGTAAATAAGAATAAGTGCATTTCAAGGAAAGCACAACTTAATTTATAGAGCCAGTTAAAGCTT
TAAAAAATTTAAGTGGAAATGAAATATGCAAAATGTATAAACATTCTACAAAAGATGGTCATTCTTTTCCTGA
GTATACTAAAGCTATGAAACGTAAGGTGACAAAAGGAAGGTAGAAGCTTGGGAAGTCTTCTCAAGGCATTTTC
TTTCTACACACTGCTTCCCTCCTTCTTCATATTCTTGCTTGGAAATCCACATCCCAACACTTGTGGTGACAACAT
GACTGACTCCTAACATTGTGTTTCCTGATAACCCCTTTACATTGGAAGGGTCAAATAATCCTTCTGGAATCTTTA
GCCGCTCTGCACCAAAATCACAATTGTAGCCATTGGGGAATTCATAATGAACAGTTGGCATCTGTGCAGCCACTT
GTTTCATCATAAGTTGAATCTGACACTTGAAGTACCGAAGCTTGAAAATCCTGGATAACACAATTACACATATAAT
TGTGCCAAGACCTCGTAACCTGAGGCAACTTCTCTTTTCTTTTCCAGTTTGCTGGAGATCCTTCACGAACAGCTT
CTTTTGATGCAATCATATATGGAGGAACCAATTCAATATTCAATTTCTTGGAAGAGTTCTCTGCACTGCATAGTAA
TAAAGTCTCCAGCAAGAGGGGATTTACAATGCCTTGTTGAAGGACATAGCCATCGTGGACTGGAATTGCAGTGG
TATGAGTGGCTCCACTGTCCAAAATCAGCCCAGTAGAACGACCATTAGCAAATGCTGTCAAAACTGCAGTTTTGC
AAAGGAAGAAGGCAGGGATGTTGTAGTGTTCAAACATTAACCTGTGTCAGTTTCTCTCTCTTTGCTCTAGTATTCC
ACGGTGCCTCTGACATGAGAACAGGATGGAGACTGGCTTCTGATTTGACATGCATTTTGTAGGTATGATCCAAAA
TAGCTTGGAAACTATCCCAGTCTTCAACCATCCCATTTTTTAGAGGTGAAATGGCCTCCATATTCTCCCTCGGAA
CACGCAGAGCATTAGTATCTATGTAGTAGGTGGGACCGCTTGTGCTTTATCGCCATCTATTTCCATTAATG
TGCTTCCGTCTCTCTTTCTACCACCATACCAATAGCTGTAGGAAAATCCACCTTGGGGCAGTCTCACCAGCAT
AACCAGCTCTCACAGTATAGGATCCAATGTCAAAAACAAGGCTCCAACCTTACCTCCCCCGTACACGCCGCCGC
TCATGGCTGCTGCCGGCGGCGACTCCTACCCTAAGGGCTAACTGGCGAAGTGACTGCAGTGGCCGCGACTGCGAGT
CTCGAGGAGCGATAGCCCTGACTCCCTTAACCTTCCACCGCCACCCACCTCAGGCAACAAAGCGG

1398/6881
FIGURE 1300

CCGCTTTGTTGCCTGAGGTGGGTGGCGGTGGAAGTTAAGGGAGTCAGGGGCTATCGCTCCTCGAGACTCGCAGTC
GCGGCCACTGCAGTCACTTCGCCAGTTAGCCCTTAGGGTAGGAGTCGCGCCGGCAGCAGCCATGAGCGGCGGCGT
GTACGGGGGAGATGAAGTTGGAGCCCTTGTTTTGACATTGGATCCTATACTGTGAGAGCTGGTTATGCTGGTGA
GGACTGCCCCAAGGTGGATTTTCTACAGCTATTGGTATGGTGGTAGAAAGAGATGACGGAAGCACATTAATGGA
AATAGATGGCGATAAAGGCAAACAAGGCGGTCCCACCTACTACATAGATACTAATGCTCTGCGTGTTCCGAGGGA
GAATATGGAGGCCATTTACCTCTAAAAATGGGATGGTTGAAGACTGGGATAGTTTCCAAGCTATTTTGGATCA
TACCTACAAAATGCATGTCAAATCAGAAGCCAGTCTCCATCCTGTTCTCATGTGAGAGGCACCGTGGAATACTAG
AGCAAAGAGAGAGAACTGACAGAGTTAATGTTTGAACACTACAACATCCCTGCCTTCTTCCTTTGCAAACTGC
AGTTTTGACAGCATTGCTAATGGTCGTTCTACTGGGCTGATTTTGGACAGTGGAGCCACTCATACCACTGCAAT
TCCAGTCCACGATGGCTATGTCTTCAACAAGGCATTGTGAAATCCCCTCTTGCTGGAGACTTTATTACTATGCA
GTGCAGAGAACTCTTCCAAGAAATGAATATTGAATTGGTTCCTCCATATATGATTGCATCAAAAGAAGCTGTTCCG
TGAAGGATCTCCAGCAAACCTGGAAAAGAAAAGAGAAGTTGCCTCAGGTTACGAGGTCTTGGCACAATTATATGTG
TAATTGTGTTATCCAGGATTTTCAAGCTTCGGTACTTCAAGTGTGAGATTCAACTTATGATGAACAAGTGGCTGC
ACAGATGCCAACTGTTCAATTATGAATCCCCAATGGCTACAATTGTGATTTTGGTGCAGAGCGGCTAAAGATTCC
AGAAGGATTATTTGACCCCTCCAATGTAAAGGGGTTATCAGGAAACACAATGTAGGAGTCAGTCATGTTGTCAC
CACAAGTGTGGGATGTGTGATATTGACATCAGACCAGGTCTCTATGGCAGTGTAAATAGTGGCAGGAGGAAACAC
ACTAATACAGAGTTTACTGACAGGTTGAATAGAGAGCTGTCTCAGAAAACCTCTCCAAGTATGCGGTTGAAATT
GATTGCAAATAATACACAGTGGAACGGAGGTTTAGCTCATGGATTGGCGGCTCCATTCTAGCCTCTTTGGGTAC
CTTTCAACAGATGTGGATTTCGAAGCAAGAATATGAAGAAGGAGGGAAGCAGTGTGTAGAAAGAAAATGCCCTTG
AGAAAGAGTTCCCAAGCTTCTACCTTCCTTTGTGACCTTACGTTTCATAGCTTTAGTATACTCAGGAAAAGAAT
GACCATCTTTTGTAGAAATGTTTATACATTTTGCATATTTCAATTTCCACTTAAATTTTTTAAAGCTTTAACTGG
CTCTATAAATTAAGTTTGTGCTTTTCTTGAATGCACTTATTCTTATTACAAGCATTTTATAATTTTGTATAAAT
GTCTATTTTCTCTAAATATTTTGCTTTTCAGTAAATGCTTTCCAACCTCTGTTTAGTGTATTAAATACCAGTGGAT
TGGTAGAACTGCTTTTTATTGACTAGTAAAGTTACTGCCTATGCTTTTTACCTTAGGCTTACAGAATTAAATAA
AAATTAGCCATTCCAGAAATAT

1399/6881
FIGURE 1301

MSGGVYGGDEVGALVFDIGSYTVRAGYAGEDCPKVDFFPTAIGMVVERDDGSTLMEIDGDKGKQGGPTYIIDTNAL
RVPRENMEAISPLKNGMVEDWDSFQAILDHTYKMHVKSEASLHPVLMSEAPWNTRAKREKLTLMFEHYNIPAFF
LCKTAVLTAFANGRSTGLILDGATHHTAIPVHDGYVLQOGIVKSPLAGDFITMQCRELFQEMNIELVPPYMIAS
KEAVREGSPANWKRKEKLPQVTRSWHNYMCNCVIQDFQASVLQVSDSTYDEQVAAQMPTVHYEFPNGYNCDFGAE
RLKIPEGLFDPSNVKGLSGNTMLGVSHVTTSVGMCIDIRPGLYGSVIVAGGNTLIQSFTDRLNRELSQKTPPS
MRLKLIANNTTVERRFSSWIGGSILASLGTFFQOMWISKQEYEEGGKQCVERKCP

1400/6881

FIGURE 1302A

AGAGTACGTGTTTACAGATAAACTGGTACACTGACAGAAAATGAGATGCAGTTTCGGGAATGTTCAATTAATGG
CATGAAATACCAAGAAATTAATGGTAGACTTGTACCCGAAGGACCAACACCAGACTCTTCAGAAGGAACTTATC
TTATCTTAGTAGTTTATCCCATCTTAACAACCTTATCCCATCTTACAACCAGTTCCTCTTTCAGAACCAGTCTCGA
AAATGAAACTGAACTAATTAAGAACATGATCTCTTCTTAAAGCAGTCAGTCTCTGTACACTGTACAGATTAG
CAATGTTCAAACCTGACTGCACTGGTGATGGTCCCTGGCAATCCAACCTGGCACCATCGCAGTTGGAGTACTATGC
ATCTTCACCAGATGAAAAGGCTCTAGTAGAAGCTGCTGCAAGGATTGGTATTGTGTTTATTGGCAATTCTGAAGA
AACTATGGAGGTTAAACTCTTGGAAACTGGAACGGTACAACTGCTTCATATTCTGGAATTTGATTAGATCG
TAGGAGAATGAGTGTAATTGTTTCAGGCACCTTCAGGTGAGAAGTTATTATTGCTAAAGGAGCTGAGTCATCAAT
TCTCCCTAAATGTATAGGTGGAGAAATAGAAAAACCAGAATTCATGTAGATGAATTTGCTTTGAAAGGGCTAAG
AACTCTGTGTATAGCATATAGAAATTTACATCAAAAGAGTATGAGGAAATAGATAAACGCATATTTGAAGCCAG
GACTGCCTTGCAGCAGCGGGAAGAGAAATTGGCAGCTGTTTTCCAGTTCATAGAGAAAGACCTGATATTACTTGG
AGCCACAGCAGTAGAAGACAGACTACAAGATAAAGTTCGAGAACTATTGAAGCATTGAGAATGGCTGGTATCAA
AGTATGGGTACTTACTGGGGATAAACATGAAACAGCTGTTAGTGTGAGTTTATCATGTGGCCATTTTCATAGAAC
CATGAACATCCTTGAACCTATAAACCAGAAATCAGACAGCGAGTGTGCTGAACAATTGAGGCAGCTTGCCAGAAG
AATTACAGAGGATCATGTGATTACAGCATGGGCTGGTAGTGGATGGGACCAGCCTATCTCTGCACTCAGGGAGCA
TGAAAAACTATTTATGGAAGTTTGCAGAAATTGTTACAGTGTATTATGCTGTCGTATGGCTCCACTGCAGAAAGC
AAAAGTAATAAGACTAATAAAATATCACCTGAGAAACCTATAACATTGGCTGTTGGTGATGGTGCTAATGACGT
AAGCATGATACAAGAAGCCCATGTTGGCATAGGAATCATGGGTAAAGAAGGAAGACAGGCTGCAAGAAACAGTGA
CTATGCAATAGCCAGATTTAAGTTCCTCTCCAAATTGCTTTTTGTTTCATGGTCATTTTTATTATATTAGAATAGC
TACCCTTGACAGTATTTTTTTTATAAGAATGTGTGCTTTATCACACCCAGTTTTTATATCAGTTCTACTGTTT
GTTTTCTCAGCAAACATTGTATGACAGCGTGTACCTGACTTTATACAATATTGTTTTACTTCCCTACCTATTCT
GATATATAGTCTTTTGGAACAGCATGTAGACCCTCATGTGTTACAAAATAAGCCACCCCTTTATCGAGACATTAG
TAAAAACCGCCTCTTAAGTATTAAACATTTCTTTATTGGACCATCCTGGGCTTCAGTCATGCCTTTATTTCTT
TTTTGGATCCTATTTACTAATAGGGAAGATACATCTCTGCTTGGAAATGGCCAGATGTTTGGAAACTGACATT
TGGCACTTTGGTCTTCACAGTCATGGTTATTACAGTCACAGTAAAGATGGCTCTGGAACACTCATTTTTGGACTTG
GATCAACCATCTCGTTACCTGGGGATCTATTATATTTTATTTGTTATTTTCTTGTATTTATGGAGGATTCTCTG
GCCATTTTTGGGCTCCAGAAATATGTATTTGTGTTTATTCAGCTCCTGTCAAGTGGTTCTGCTTGGTTTGGCAT
AATCCTCATGGTTGTTACATGTCTATTTCTTGATATCATAAAGAAGGCTTTGACCGACACCTCCACCCTACAAG
TACTGAAAAGGCACAGCTTACTGAAACAAATGCAGGTATCAAGTGCTTGGACTCCATGTGCTGTTTCCCGGAAGG
AGAAGCAGCGTGTGCATCTGTTGGAAGAATGCTGGAACGAGTTATAGGAAGATGTAGTCCAACCCACATCAGCAG
ATCATGGAGTGCATCGGATCCTTTCTATACCAACGACAGGAGCATCTTGACTCTCTCCACAATGGACTCATCTAC
TTGTTAAAGGGGCAGTAGTACTTTGTGGGAGCCAGTTCACTCCTTTCTTAAATTCAGTGTGATCACCTGTTA
ATGGCCACACTAGCTCTGAAATTAATTTCCAAAATCTTTGTAGTAGTTCATACCCACTCAGAGTTATAATGGCAA
ACAAACAGAAAGCATTAGTACAAGCCCTCCCAACACCCCTTAATTTGAATCTGAACATGTTAAAAATTGAGAATA
AAGAGACATTTTTCATCTCTTTGTCTGGTTTGTCCCTTGTGCTTAATGGGACTCCTAATGGCATTTCAGTCTGTTG
CTGAGGCCATTATATTTTAAATATAAATGTAGAAAAAGAGAGAAATCTTAGTAAAGAGTATTTTTTAGTATTAGC
TTGATTATTGACTCTTCTATTTAAATCTGCTTCTGTAAATTATGCTGAAAGTTTGCCTTGAGAACTCTATTTTTT
TATTAGAGTTATATTTAAAGCTTTTTCATGGGAAAAGTTAATGTGAATACTGAGGAATTTTGGTCCCTCAGTGACC
TGTGTTGTTAATTCATTAATGCATTCTGAGTTCACAGAGCAAATAGGAGAATCATTTCCAACCATTATTTACTG
CAGTATGGGGAGTAAATTTATACCAATTCCTCTAACTGTACTGTAAACACAGCCTGTAAAGTTAGCCATATAAATG
CAAGGGTATATCATATATACAAATCAGGAATCAGGTCCGTTACCGAACTTCAAATGATGTTTACTAATATTTT
TGTGACAGAGTATAAAGACCCCTATAGTGGGTAAATTAGATACTATTAGCATATTATTAATTTAATGTCTTTATCA
TTGGATCTTTTGCATGCTTAAATCTGGTTAAACATATTTAAATTTGCTTTTTTCTCTTTACCTGAAGGCTCTGTG
TATAGTATTTTCATGACATCGTTGTACAGTTTAACTATATCAATAAAAAGTTTGGACAGTATTTAAATATTGCAA
TATGTTTAAATTATACAAATCAGAATAGTATGGGTAATTAATGAATACAAAAAGAAGAGCCTCTTCTGCAGCCG
ACTTAGACATGCTCTTCCCTTTCTATAAGCTAGATTTTGAATAAAGGGTTTCAGTTAATAATCTTATTTTCAGG
TTATGTCATCTAACTTATAGCAAACTACCACAATACAGTGAGTTCTGCCAGTGTCAGTACAAGGCATATTTCA
GGTGTGGCTGTGGAATGTAAAAATGCTCAACTTGTATCAGGTAATGTTAGCAATAAATTAATGCTAAGAATGAT

1401/6881
FIGURE 1302B

TAATCGGGTACATGTTACTGTAATTAACCTCATTGCACTTCAAAACCTAAGCTTCCATCCTGAATTTATCAAGTAGT
TCAGTATTGTGCTATTTGTTTTGTTTTATTGAAAAGTAATGTTGTCTTAAGATTAGAAAGTGATTATTAGCTTGAG
AACTATTACCCAGCTCTAAGCAAATAATGATTGTATACATATTAAGATAATGGTTAAATGCGGTTTTACCAAGTT
TTCCCTTGAAAATGTAATTCCTTTATGGAGATTTATTGTCAGCCCTAAGCTTCCTTCCATTTCATGAATATAA
GGCTTCTAGAATTGGACTGGCAGGGGAAAGAATGGTAGAGACAGAAATTAAGACTTTATCCTTGTGTGCTTGTA
ACTATTATTTTCTTGCTAATGTAACATTTGTCTGTTCCAGTGATGTAAGGATATTAAGTTATTAAGCTAAATATT
AATTTTCAAAAATAGTCCTTCTTTAACTTAGATATTTTCATAGCTGGATTTAGGAAGATCTGTTATTCTGGAAGTA
CTAAAAAGAATAATACAACGTACAATGTCTGCATTCACTAATTCATGTTCCAGAAGAGGAAATTAATGAAGATATA
CTCAGTAGAGTACTAGGTGGGAGGATATGGAAATTTGCTCATAAAATCTCTTATAAAACGTGCATATAACAAAAT
GACACCCAGTAGGCCTGCATTACATTTACATGACCGTGTATTGTCATCAAATAAAGTACTGACTGACACCCAG
ACAAAGACTCCAAAGTCATAAAATAGCCTATGACCAACTGCAGCAAGACAGGAGGTGAGCTCGCCTATAATGGTG
CTTAAAGTGTGATTGATGTAATTTTCTGTACTCACCATTGAAGTTAGTTAAGGAGAACTTTATTTTTTAAAAA
AAGTAAATGGCAACCACTAGTGTGCTCATCCTGAACTGTTACTCCAAATCCACTCCGTTTTTAAAGCAAAATTAT
CTTGATGATTTTAAAGAAAAGAGTTTTCTATTTATTTAAGAAAAGTAACAATGCAGCTGCAAGCTTTCAGTAGTTTT
CTAGTGCTATATTTCATCCTGTAAAACCTTACTACGTAACCAAGTAATCACAAGGAAAGTGTCCCTTTGCATATT
TCTTTAAAATTTCTTTCTTTGGAAAGTATGATGTTGATAATTAACCTTACCCTTATCTGCCAAAACCAAGAGCAAAAT
GCTAAATACGTTATTGCTAATCAGTGGTCTCAAATCGATTTGCCTCCCTTTGCCTCGTCTGAGGGCTGTAAGCCT
GAAGATAGTGGCAAGCACCAAGTCAGTTTCCAAAATTGCCCTCAGCTGCTTTAAGTGAAGTACAGACCCCTGCCTC
AGCTTCAGCAGGCGTAGGCTCACCCTGGGCGGAGCAAAGTATGGGCCAGGGAGAACTACAGCTACGAAGACCTGC
TGTCGAGTTGAGAAAAGGGGAGAATTTATGGTCTGAATTTTCTAACTGTCCTTTCTTGGGTCTAAAGCTCATA
ATACACAAAGGCTTCCAGACCTGAGCCACACCCAGGCCCTATCCTGAACAGGAGACTAAACAGAGGCAAAATCAAC
CCTAGGAAATACTTGCATTCTGCCCTACGGTTAGTACCAGGACTGAGGTCAATTTCTACTGGAAAAGATTGTGAGA
TTGAACTTATCTGATCGCTTGAGACTCCTAATAGGCAGGAGTCAAGGCCACTAGAAAATTGACAGTTAAGAGCCA
AAAGTTTTTAAATATGCTACTCTGAAAAATCTCGTGAAGGCTGTAGGAAAAGGGAGAATCTTCCATGTTGGTGT
TTTTCTGTAAAGATCAGTTTGGGGTATGATATAAGCAGGTATTAATAAAAATAACACACCAAAGAGTTACGTAA
AACATGTTTTATTAATTTTGGTCCCCACGTACAGACATTTTATTTCTATTTTGAATGAGTTATCTATTTTCATA
AAAGTAAAACACTATTAAGTGCTGTTTTATGTGAAATAACTTGAATGTTGTTCTATAAAAAATAGATCATAAC
TCATGATATGTTTGTAAATCATGGTAATTTAGATTTTTATGAGGAATGAGTATCTGGAAATATTGTAGCAATACTT
GGTTTTAAATTTTGGACCTGAGACACTGTGGCTGTCTAATGTAATCCTTTAAAAATTTCTGCTGATTGTCAGTAA
TGATATATATTATTGTACAGCTACTCATAATTTTTTAAAGTTTATGAAGTTATATTTATCAATAAAAACTTTCC
TATAT

1402/6881
FIGURE 1303

MQFRECSINGMKYQEINGRLVPEGPTPDSSEGNLSYLSSLSHLNNLSHLTTSSSFRTSPENETELIKEHDLFFKA
VSLCHTVQISNVQTDCTGDGPWQSNLAPSQLEY YASSPDEKALVEAAARIGIVFIGNSEETMEVKTLGKLERYKL
LHILEFDSRRRMSVIVQAPSGEKLLFAKGAESSILPKCIGGEIEKTRIHVDEFALKGLRTL CIA YRKFTSKEYE
EIDKRIFEARTALQQREEKLA AVFQFIEKDLILLGATAVEDRLQDKVRETIEALRMAGIKVWVLTGDKHETAVSV
SLSCGHFHRTMNILELINQKSDSECAEQLRQLARRITEDHV IQHGLVVDGTSLSLALREHEKLFMEVCRNCSAVL
CCRMAPLQKAKVIRLIKISPEKPITLAVGDGANDVSMIQEAHVIGIGIMGKEGRQAARNSDYAIARFKFLSKLLFV
HGHFYYIRIATLVQYFFYKNVCFITPQFLYQFYCLFSQQTLYDSVYLTLYNICFTSLPILIIYSLLEQHVDPHVLQ
NKPTLYRDISKNRLLSIKTFLYWTILGF SHAFIFFFGSYLLIGKDTSL LGNGQMFGNWTFGTLVFTVMVITVTVK
MALETHFWTWINHLVTWGSIIIFYVFSLFYGGILWPFLGSQNMYFVFIQLLSSGSAWF AIILMVVTCFLFDI I KK
VFDRHLHPTSTEKAQLTETNAGIKCLDSMCCFPEGEAACASVGRMLERVI GRCSPTHISRSWSASDPFYTNDRSI
LTLSTMDSSTC

1403/6881
FIGURE 1304

TTTAGCAGTCTGTGATGATCAGCAAAAAAGCACATAAAGTAAAAATTAGTTGACCATGCTAAAATTCAATTCTGGA
ATTTTTTTTTTATTGGGCATTTCTAGAACTTTTTACATTTGAAAGTACATGATGAGTATTAGTAACGATGACTTA
TGTATAATCAGAATCTTTATGACAAATTTAGTTTTTACAAGGTCAGAAGAGATGAGTTTGCTAAACCCAGCTGTGAT
ACCTCAGTTGGAAAGGGAATTCAAAGGTATGCTTTGTAGAACAGAAAAGTATAGTTTTTTTTTTCATGAACTTTAA
TCATTTTCTGTTTTTCTCTATGTGAGTCAGCTACAAAAGTGGTCTAATTTTTTACAACAGTAGAACTTCCTCCTT
TTCTACTGTAATCTTCCCACTGACTTTACTGCACAGGTATGAAATACTAGTGTATTGGATCTTCAGTAACCTTTT
TATTTCCCTAGATGATTGAAATATAGGTATTTACTCCATTTAAACCAGGTGATAAGATGATGTAATACTCAGGGA
GGGTATTAACCTGTTACTTTTGCTCGCTTTGGGGGTGTAAAGTGCCATGACTGAATAATCTTCAATTCATGATTCTA
GAGTAAGTTTAAATTTGGAAAAAGGGGCTTCACACATGGTGGTGGTTGAACATTGATTCTTTTATACTTAAAAAGA
TGAAATGTTTTGTGGACTGATACATTTTATCTTACTGAATATGAATTGTTTATGTATCTCTACTGTCAAATAGC
CTTTTTGAAACTCAGGAAAGACAAAGGTTCAATTACACCACTTTTGTCAATAAGCAAACCAAGGTATTTTTTTTTT
CTCCTGTTGTCTGGATATGGCAATAGATTTTTTAAATTGCTGTGAGAACCATATATGAAAAGAGAGGAGTTGAA
TTGTGTGTGCCTTTTATGTCTTGAGATTTATATGTGGAAAAGACGACATCTACTTCAAACGTATTTTTTTCGTT
TTTTTTTTTTTTTGGGGAAGGGGGGAGAACGGGGTCTTGCTCTGTGCGCCAGGCTGGAGTGCAGTGGCGCGATCT
CAGTCTGACTGCAACCTCCACCTCCCGGGTTCAAGGGATTCTGCCTCAGCCTCCCGAGTAGCTGAGACCACAGGTG
CGTGCCACCACACCCGGCTAATTTTTTTGTATTTTTTAGTAGAGACGGGTTTAGTAGAGACGGATCACTCCTGAC
CACGTGATCCGCCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCACCCCGGCCTGTATTTT
CAGAGAGGAGAGCTTGGTGTTTTTGTGGTGCCAAGTGTTAAGATAATGTCTCTTTGAGGCTTCCTATGGACTGCC
TTTATTTTAGTAACTCAAGACACCAGTTAACCTCAACAGAGTTTTTGGCCTTATTAGAATTTGTTGTGCATCTTA
TTGAAAGCCAGGTTTACATCACCTCACCCATTATTCTTTTTTAGTTAAATAAATTTACCATGCCAAGTAACCAGA
ATGGAGCAAATTTGGTTGATCTTTAAGGCAGTAGGTTTGACTAGCTAGCTATCATTATTGTCACATCTAATGCTAG
GCACCAGAAACCAATTTGAGCCAGGAGTGTGAATGAATAATTCCAGAGACACTTAGACATTTTTTAATGTTTTAT
ATGAACATTTTACATTTGTGTGATTGCCCTAGATATTAATTTTCTAGTGCTGATAAAAACAGCAACATTCATA
ACTTATTTTATATATTGTTCCAAAGAAAAGAATTTGTTTTAATGGTTTCAAATAAAGTGCACCTGAATTTGTTTA
TGTGCCCTTAAGTTCTCTAGTGCTATTTCAACTTTTTTTTCAATCTAAATGAAGCTTACCTTAGATAAGGTTTATA
TTGTTTCCCTATAGAGTAAATAAACTTCCCCTTCTTAAATTGTGTGAATAAGCACCAACGTGTGGTTGCTTGGCAG
AATGAGAATGTTAAGGGAGATTGTTGGATGTTGGAGTTTCAATTATTTTTTGTTTTTATTTTTTGATACCTAG
GTGCTTTTTAAATATTCAGACAAATATCTATCTTACATTGATTAAACCCGTGTAAATTCATTTGCAGTATCTAC
ATCGAATGTCAAAAAGTATACTTATTTTTGTTCCATACTTATGTACAATTTTTTCCCTCTTCAGGCTTTTTTCAT
TTACCTTTTTGAAAAAGCACTTACTCTCCCCTTCCCTATCACCCCTCCCCAAGGTTTCTTTATTTAAATTTTTTA
TTGAGAGTTGTTGGAGCTCTAAGACAATACAAATTTAGAGTTGAACAAAAGTATAATCTGCTTTACAACAGTAT
AGACCTAAGGTCATTTGCTTTCAATTAGAGGCTCCAGAGTCTTCATAGTGGAAAGAATGCTTTGTATTTAATTGT
TCTTAGTTAAGTTGTAGCAGTGAATACTTACTTACATGTTTTGTTTAAATATACTTCTTGATAGTTTAAATTT
TAAAAGTTGTATCTAATAAAATGTCTTTTAACCATTATTACTTGACTATATGGTTGTATTAAATTTTGTTTACG

1404/6881
FIGURE 1305

MYLYCQIAFLKLRKDKGSITPLLSISKPGIFFFSCCLDMAIDFLNCCENPYMKREELNCVCLLCLEIYMWKRRHL
LQTVFFSFFFFFFGEGGRIGSCSVAQAGVQWRDLS

1405/6881
FIGURE 1306

GTCTGGAATCAAGCGAACCATCAAAGAAACCGACCCTGATTACGAGGATGTATCTGTGGCCCTTCCAAATAAGCG
GCATAAAGCAATTGAGAATTGAGCTCGAGATGCTGCTGTGCAGAAAGATTGAGACTATTATCAAAGAACAGTTTGC
TCTTGAAATGAAGAATAAGGAACATGAAATTGAAGTCATTGACCAGCGACTGATTGAAGCAAGAAGGATGATGGA
TAAACTGCGTGCCIGCATTGTAGCAAACACTATGCTTCTGCAGGTCTTCTAAAAGTTTCTGAGGGATCAAAGAC
ATGTGATACGATGGTTTTTAATCATCCTGCTATCAAGAAATTTTGGAAATCACCATCTAGGTCATCATCTCCTGC
CAATCAGAGAGCAGAAACACCATCAGCCAAATCATTGAGAAAGTGATTCTTTATCTCAGCACAAATGACTTCTTATC
TGACAAAGATAATAACAGCAATATGGATATAGAGGAAAGACTCTCAAACAACATGGAGCAGAGACCAAGCCGAAA
TACTGGAAGGGATACTTCTAGAATTACTGGCTCCCATAAAACAGAACAGCGGAATGCTGATCTCAGAGATGAGAC
TTCACGACTTTTTGTAAAGAAAACAATAGTAGTGGGCAATGTGTCCAAGTATATACCTCCGGATAAGAGGGAAGA
AAATGACCAGTCAACTCATAAGTGGATGGTATATGTCCGAGGGTCCCGTAGAGAACCCAGCATTAAATCATTTTGT
CAAGAAGGTTTGGTTCTTCCCTTCATCCTAGCTATAAACCAAATGACCTTGTGGAAGTTAGAGAGCCTCCTTTTCA
CCTGACCAGAAGAGGCTGGGGTGAGTTTCCCGTCAGAGTTCAAGTTTCATTTTAAGGACAGCCAGCTCAAACCACT
CAGCGTAAACACATCTGGAGGGGTGCAGACGATCCTGATGCCTGTGAATAAAGTGGTTCAGTCATTTTCTACCAG
CAAGCCACCTGCCATTCTGCCTGTAGCTGCCCCAACTCCAGTTGTCCCCAGCTCTGCTCCAGCAGCTGTTGCAAA
AGTGAAGACTGAACCAGAAACACCTGGACCGAGTTGCCTCTCTCAGGAGGGTCAGACAGCAGTGAACAGAGA
AAGTTCTGAGCTGGGAAACTATGTCAATTAAGATAGACCATTAGAAACTATCCAGCAACTCCTAACTTAGTAAAG
AAGATTCCATTAATCACTGCAAAAAGTGAAGATGCCAGCTGCTTTTCTGCAAAGTCTGTGGAGCAGTACTATGGC
TGGAACATTGGAAAAAGGAGAGCCGCTGAGTGGCAAAGAGCAATGACAATGCGAAAAGTCTTACAAGAAATCCTG
GAGAAGAATCCGAGATTTACACACCTGACTCCCCCTCAAACCAAGCACATCGCTCACTGGTGCCGCTGTCAATGGC
TACACCCACCGGACCCTGAGAGCCTGAGGAATGACGGGGACTCCATCGAGGACGTGCTGACCCAGATCGACAGC
GAGCCCGAGTGCCCATCATCTCTCTGCTGACAACCTCTGCCGCAAAGTGGAGACCTGCAACAGTTCCAG
CCCTGGTGACAGAGGAGACCCCGTCTCAAAAATTGATTGATCAATTCAGCATCTGAGGGCTGCAAGTACAGAAGG
AATCTATTCTCAGCAGGGCATAGGGCACGCACTGGCTTAACAGTTTAGTATATAAGGCTCAAATAGTCTATACCT
GAACTGCTATAAGCAAGGTCGATAGGGAAGTGGATAGATTGCTTCAGCAAAGTGAAGTGTGAGATCTCCAGGACA
GAGGGAGAAAGATCTGATCCAAATGAGAACAGATTGGTTATTGCAGGTATCACAGCCTAAAGAAATATCTTTTT
GCAAAAGAAATATTAAATGATTTAGCAGTCTCCACGTGTGTTAATGTTTCAAACGTGTATCATAATGTGTATAAT
TGTGTAACAAAATTGTCTACAATAAATCTTTTGGTATTTGT

1406/6881
FIGURE 1307

MKNKEHEIEVIDQRLIEARRMMDKLRACIVANYYASAGLLKVSEGSKTCDTMVFNHPAIKKFLESPPSRSSSPANQ
RAETPSANHSESDSLSQHNDFLSDKDNNSNMDIEERLSNNMEQRPSRNTGRDTSRITGSHKTEQRNADLTDETSR
LFVKKTIIVVGNVSKYIPDPKREENDQSTHKWMVYVRGSRREPSINHFKVWFFLHPSYKPNDLVEVREPPFHLT
RRGWGEFPVRVQVHFKDSQLKPLSVNTSGGVQTILMPVNKVVSFSTSKPPAILPVAAPTVPVPSSAPAAVAKVK
TEPETPGPSCLSQEGQTAVKTEESSELGNYVIKIDHLETIQQLLT

1407/6881
FIGURE 1308

ATGTCTAGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTG CAGCAGGAACCCACTTA
GGTGGTACCAACCTTGACTTCCAAATGGACAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGA
GCCACTCAAATTGTTGGCCGCTTCACTCCTGGAACCTTCACTAGCCAGACCCAGGCAGCCTTCAGGGAGCCACGG
CTTCTAGTGGTTACTGATCCCAGGGCTGACCACCAGCCTCTCACAGAGACATCTTATGTTAACCTACCTACCATT
GCTCTATGTCACACAGATTTTCCTCTGCGCTATGTGGACATTGCCATCACATGCAACAACAAGGGAGCTCCCTCA
GTGGGTCCGAGCTGGTGGATGCTGGCCCTGGAAGTTCTGCGCGTGTGTGGCACCATTTCCTCGAACACCCATGG
GAGGTCATGCCTGATCTCTACTTCTACAGAGATCCTGAAGAGATTGGAAGAGAGGAGCAGGTTGCTGCTGAAAAG
ACTGTGACCAAGGAGGAATTT CAGGGCAAATGGACTGCTCCAGCTCCTGAGTTCACCGCTATTCAGCCTGAGGTT
GGAGACTGGTCTGATGGTGTACAGGTGCCCTCTGTGCCTATTCATCAGGTCCCTACTGAAGACTGGAGTGCTCAG
CCTGCCACAGAAGACTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGAAACAACCACTGAATGGTCT
TAA

1408/6881
FIGURE 1309

MSRALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMDNTGQRAVLKFAAATGATQIVGRFTPGTFTSQTQAAFREPR
LLVVTDPRADHQPLTETSYVNLPTIALCHTDPLRYVDIAITCANNKGAPSVGPSWWMLALEVLRVCGTISLEHPW
EVMPDLYFYRDPEEIGKEEQVAAEKTVTKEEFQGKWTAPAPEFTAIQPEVGDWSDGVQVPSVPIHQVPTEDWSAQ
PATEDWSAAPTAAQATEWVETTEWS

1409/6881
FIGURE 1310

TGCGTGCGGTGGCAGCTTCCTTGCGGAAGTGGTGACCGTGAGAGAAGAAGATGCGCGGCCCTGTAGTGGCGCCGC
CTGGTGTGGTGGTTAGTCGGGCTAACAAGCGCAGCGGCGCGGGCCGGGAGGCAGCGGTGGCGGGGGAGCCAGAG
GGGCGGAGGAGGAACCGCCGCGCCCTACAAGCAGTTCTGGTGGCCGATAGCTTCGATCGCCGCTTCTTCCCCA
TCTCCAAGGACCAGCCTCGGGTCTTCTGCCCCCTGGCCAATGTGGCATTAAATTGACTACACTCTGGAATTCTCTGA
CTGCCACAGGTGTACAGGAAACATTTGTCTTTTGTGTGCTGGAAAGCTGCTCAAATCAAAGAACATTTACTGAAGT
CAAAGTGGTGGCGCCCTACATCTCTCAATGTGGTTCGAATAATTACATCAGAGCTCTATCGATCACTGGGAGATG
TCCTCCGTGATGTTGATGCCAAGGCTTTGGTGCCTCTGACTTTCTTCTGGTGTATGGGGATGTCATCTCAAACA
TCAATATCACCAGAGCCCTTGAGGAACACAGGTTGAGACGGAAGCTAGAAAAAATGTTTCTGTGATGACGATGA
TCTTCAAGGAGTCATCCCCAGCCACCCAACTCGTTGCCACGAAGACAATGTGGTAGTGGCTGTGGATAGTACCA
CAAACAGGGTTCTCCATTTTCAAGAACCCAGGGTCTCCGGCGTTTGCATTTCTCTGAGCCTGTTTCAGGGCA
GTAGTGATGGAGTGGAGGTTTCGATATGATTACTGGATTGTCATATCAGCATCTGTTCTCCTCAGGTGGCACAAC
TCTTTACAGACAACTTTGACTACAACTCGAGATGACTTTGTGCGAGGTCTCTTAGTGAATGAGGAGATCCTAG
GGAACCAGATCCACATGCACGTAACAGCTAAGGAATATGGTGGCCGTGTCTCCAACCTACACATGTACTCAGCTG
TCTGTGCTGACGTATCCGCCGATGGGTCTACCTCTCACCCAGAGGCGAACTTCACTGACAGCACCACCCAGA
GCTGCACTCATTTCCCGGCACAACATCTACCGAGGGCCTGAGGTCAGCCTGGGCCATGGCAGCATCCTAGAGGAAA
ATGTGCTCCTGGGCTCTGGCACTGTCTATTGGCAGCAATTGCTTTATCACCAACAGTGTCTATTGGCCCCGGCTGCC
ACATTGGTGATAACGTGGTGTGACGACCTACCTGTGGCAGGGTGTTCGAGTGGCGGCTGGAGCACAGATCC
ATCAGTCTCTGCTTTGTGACAATGCTGAGGTCAAGGAACGAGTGACACTGAAACCACGCTCTGTCTCTCACTTCCC
AGGTGGTGGTGGGCCCAATATCACGCTGCCTGAGGGCTCGGTGATCTCTTTGCACCCTCCAGATGCAGAGGAAG
ATGAAGATGATGGCGAGTTCAGTGATGATTCTGGGGCTGACCAAGAAAAGGACAAAGTGAAGATGAAAGGTTACA
ATCCAGCAGAAGTAGGAGCTGCTGGCAAGGGCTACCTCTGGAAAGCTGCAGGCATGAACATGGAGGAAGAGGAGG
AACTGCAGCAGAATCTGTGGGGACTCAAGATCAACATGGAAGAAGAGAGTGAAAGTGAAGTGAGCAAAGTATGG
ATTCTGAGGAGCCGGACAGCCGGGAGGCTCCCCCTCAGATGGATGACATCAAAGTGTTCCAGAAATGAAGTTTTAG
GAACACTACAGCGGGGCAAAGAGGAGAACATTTCTTGTGACAATCTCGTCCTGGAATCAACTCTCTCAAGTATG
CCTATAACGTAAGTCTAAAGGAGGTGATGCAGGTACTGAGCCACGTGGTCCTGGAGTTCCTCCCTGCAACAGATGG
ATTCCCCGCTTGACTCAAGCCGCTACTGTGCCCTGCTGCTTCTCTGCTAAAGGCCTGGAGCCCTGTTTTTAGGA
ACTACATAAAGCGCGCAGCCGACCATTGGAAGCGTTAGCAGCCATTGAGGACTTCTTCTTAGAGCATGAAGCTC
TTGGTATTTCCATGGCCAAGGTACTGATGGCTTTCTACCAGCTGGAGATCCTGGCTGAGGAAACAATTCTGAGCT
GGTTCAGCCAAAGAGATACAACACTGACAAGGGCCAGCAGTTGCGCAAGAATCAACAGCTGCAGAGGTTTCATCCAGT
GGCTAAAAGAGGCAGAAAGAGGAGTCATCTGAAGATGACTGAAGTCACACTGCCTGCTCCTTTGGGTGTGATTGAG
TGCCCTCCTGGCTCCTGGGCTGGGACAAGTGAGGAACAGCTGCAGAGGGATGAGTGACCACCATCCAGGCTGAG
ACTGAAAGGAGCAGAGGCTGGAACACTACAGTATTCTTTCCCTGCTAGCAACCATGTGCCTCCCATCCTGACTGTG
GAGTTGGGATGTGGAAGTGGGGCTGGAAACAAAGCTTCTGCTAGGGAGGAGCTAAGCAGGCCCGGCAGTTGGAGG
AAGGCCAGAGGAACAGCTTTGTGCTCCGCTTTCCCTCAGGGAACAGCAGAGAGCAGTTGGCTCTTTCTGCTGCT
TGTATATGTTAATATTAAAAGAGAGTGGTGT

1410/6881
FIGURE 1311

MAAPVVAPPGVVVS RANKRSGAGPGGSGGGGARGAEEPPPPPLQAVLVADSFDRRFFPISKDQPRVLLPLANVAL
IDYTLEFLTATGVQETFFVCCWKAQIKEHLLKSKWCRTSLNVVRIITSELYRSLGDVLRDVAKALVRSDFL
VYGDVISNINITRALEEHLRRKLEKNVSVMTMIFKESSPSHPTRCHEDNVVAVDSTTNRVLHFQKTQGLRFA
FPLSLFQGSSDGEVRYDLLDCHISICSPQVAQLFTDNFDYQTRDDFVRGLLVNEEILGNQIHMHVTAKEYGARV
SNLHMYSAVCADVIRRWVYPLTPEANFTDSTTQSCTHSRHNIYRGPEVSLGHGSILEENVLLGSGTVIGSNCFIT
NSVIGPGCHIGDNVVDQTYLWQGV RVAAGA QIHQSLLCDNAEVKERVTLKPRSVLTSQVVVGPNITLPEGSVIS
LHPPDAEEDDDGEFSDDSGADQEKDKVKMGYNPAEVGAAGKGYLWKAAGMNMEEEEELQQNLWGLKINMEEES
ESESEQSMDSEEPDSRGGSPQMDDIKVFQNEVLGTLQRGKEENISCDNLVLEINSLKYAYNVSLKEVMQVLSHV
LEFPLQQMDSPLDSSRYCALLLELLKAWSPVFRNYIKRAADHLEALAAIEDFFLEHEALGISMALMAFYQLEI
LAEETILSWFSQRDITDKGQQLRKNQQLQRFIQWLKEAEEESSEDD

1411/6881
FIGURE 1312

ATGGCGGCCCTGTAGTGGCGCCGCCTGGTGTGGTGGTTAGTCGGGCTAACAAGCGCAGCGGCGGGGCCGGGA
GGCAGCGGTGGCGGGGGAGCCAGAGGGGCGGAGGAGGAACCGCCGCCGCCCTACAAGCAGTTCTGGTGGCCGAT
AGCTTCGATCGCCGCTTCTTCCCCATCTCCAAGGACCAGCCTCGGGTCCCTTGCCCCCTGGCCAATGTGGCATT
ATTGACTACACTCTGGAATTCCTGACTGCCACAGGTGTACAGGAAACATTGTCTTTTGTGCTGGAAAGCTGCT
CAAATCAAAGAACATTTACTGTAAGGCCCTGCAACTTTTCTTTCCATGTTTCGCCATCTTTTCCAGTTTTTCA
GGATGAATGTAATAAGGGGAAATGTGAGAGGGGAAAAATGTGTCTACTTAGATGTCATTGTAAGTTCTAAGGGT
ATTTTCTACACTTATCAGGAGGTGAGCAGCTGAACTTTGTATCTGTCTGTCTTGGGTTTTCTGTGACAAAGATT
AAAGAATAAACTTGGGTTTTTCTGAATCTC

1412/6881
FIGURE 1313A

CAAGCGACACAAATGAACACGCCTTCTCAGCCCCGCCAGCACTTCTACCCTAGCCGGGCCCAGCCCCGAGCAGT
GCAGCCTCCCGAGTGCAGAGTGCAGCCCTGCCCGCCCTGGCCCAGCTGCCCCATGTCTACCCTGCTGGATCCCCAA
GTAATGATGATCCCTTCCCAGATCTCTACCCAGCCTCCCAGGGGGCCTACTACATCCCTGGACAGGGGCGTTCC
ACATACGTTGTCCCACACAGCAGTACCCTGTGCAGCCAGGAGCCCCAGGCTTCTATCCAGGTGCAAGCCCTACA
GAATTTGGGACCTACGCTGGCGCCTACTATCCAGCCCCAAGGGGTGCAGCAGTTTCCCACTGGCGTGGCCCCCACC
CCAGTTTTGATGAACCAGCCACCCCAGATTGCTCCCAAGAGGGAGCGTAAGACGATCCGAATTCGAGATCCAAAC
CAAGGAGGAAAGGATATCACAGAGGAGATCATGTCTGGGGCCCGCACTGCCTCCACACCCACCCCTCCCCAGACG
GGAGGCGGTCTGGAGCCTCAAGCTAATGGGGAGACGCCCCAGGTTGCTGTCAATTGTCCGGCCAGATGACCGGTCA
CAGGGAGCAATCATTGCTGACCGGCCAGGGCTGCCTGGCCCAGAGCATAGCCCTTCAGAATCCCAGCCTTCGTCTG
CCTTCTCCGACCCCATCACCATCCCCAGTCTTGAACCGGGGTCTGAGCCTAATCTCGCAGTCCTCTCTATTTCCT
GGGGACACTATGACAACTATACAAATGTCTGTAGAAGATCAACCCCCATCTCCCGTGAACTGGGGAGCCATAT
CGCCTCTCTCCAGAACCCACTCCTCTCGCCGAACCCATACTGGAAGTAGAAGTGACACTTAGCAAACCGGTTCCA
GAATCTGAGTTTTCTTCCAGTCTCTCCAGGCTCCCACCCCTTTGGCATCTCACACAGTGGAAATTCATGAGCCT
AATGGCATGGTCCCATCTGAAGATCTGGAACCAGAGGTGGAGTCAAGCCCAGAGCTTGCTCCTCCCCAGCTTGC
CCCTCCGAATCCCTGTGCCCATTTGCTCCAACCTGCCCCAACCTGAGGAAGTGTCAACGGAGCCCCCTCGCCACCA
GCTGTGGACTTAAGCCAGTCAGTGAGCCAGAGGAGCAGGCCAAGGAGGTGACAGCATCAATGGCGCCCCCACC
ATCCCTCTGCTACTCCAGCTACGGCTCCTTCAGCTACTTCCCCAGCTCAGGAGGAGGAATGGAAGAAGAAGAA
GAAGAGGAAGAAGGAGAAGCAGGAGAAGCAGGAGAAGCTGAGAGTGAGAAAGGAGGAGAGGAAGTGTCCCCCA
GAGAGTACCCCTATTCCAGCCAACCTGTCTCAGAATTTGGAGGCAGCAGCAGCCACTCAAGTGGCAGTATCTGTG
CCAAAGAGGAGACGGAATAAAGGAGCTAAATAAGAAGGAGGCTGTTGGAGACCTTCTGGATGCCTTCAAGGAG
GCGAACCCGGCAGTACCAGAGGTGGAAAATCAGCCTCCTGCAGGCAGCAATCCAGGCCCAGAGTCTGAGGGCAGT
GGTGTGCCCCACGTCTGAGGAAGCAGATGAGACCTGGGACTCAAAGGAAGACAAAATTCACAATGCTGAGAAC
ATCCAGCCCGGGAACAGAAGTATGAATATAAGTCAGATCAGTGAAGCCTCTAAACCTAGAGGAGAAAAACGT
TACGACCGTGAGTTCTGCTTGGTTTTAGTTTCTTGTCCAGTATGCAGAAGCCAGAGGGATTGCCACATATC
AGTGACGTGGTGTGGAACAAGGCCAATAAAACACCACTGCGGCCACTGGATCCCACTAGACTACAAGGCATAAAT
TGTGGCCAGACTTCACTCCATCCTTTGCCAACCTTGCCCGGACAACCCTTAGCACCCGTGGGCCCCCAAGGGGT
GGGCCAGGTGGGGAGCTGCCCCGTGGGCCGGCTGGCCTGGGACCCCGCGCTCTCAGCAGGGACCCCCGAAAGAA
CCACGCAAGATCATTGCCACAGTGTTAATGACCGAAGATATAAACTGAACAAAGCAGAGAAAGCCTGGAAACCC
AGCAGCAAGCGGACGGCGGCTGATAAGGATCGAGGGGAAGAAGATGCTGATGGCAGCAAAACCCAGGACCTATT
CGCAGGGTGCCTCCATCCTGAATAAACTGACACCCAGATGTTCCAGCAGCTGATGAAGCAAGTGACGCAGCTG
GCCATCGACACCGAGGAACGCCTCAAAGGGGTCAATTGACCTCATTTTTGAGAAGGCCATTTTCAGAGCCCAACTTC
TCTGTGGCCTATGCCAACATGTGCCGCTGCCTCATGGCGCTGAAAGTGGCCACTACGGAAAAGCCAAACAGTGACT
GTGAACCTCCGAAAGCTGTTGTTGAATCGATGTGAGAAGGAGTTTGAGAAAGACAAAGATGATGAGGTTTTT
GAGAAGAAGCAAAAAGAGATGGATGAAGCTGTACGGCAGAGGAACGAGGACGCCTGAAGGAAGAGCTGGAAGAG
GCTCGGGACATAGCCCGCGCGCTCTTTAGGGAATATCAAGTTTATTGGAGAGTTGTTCAAACCTGAAGATGTTA
ACAGAGGCAATAATGCATGACTGTGTGGTCAAACCTGCTTAAGAACCATGATGAAGAGTCCCTTGAGTGCCTTTGT
CGTCTGCTCACCACATTGGCAAAGACCTGGACTTTGAAAAAGCCAAGCCCCGAATGGATCAGTATTTCAACCAG
ATGGAAAAATCATTAAAGAAAAGAAGACGTCTATCCGCATCCGCTTTATGCTGCAGGACGTGCTGGATCTGCGA
GGGAGCAATTGGGTGCCACGCCGAGGGGATCAGGGTCCCAAGACCATTGACCAGATCCATAAGGAGGCTGAGATG
GAAGAACATCGAGAGCACATCAAAGTGCAGCAGCTCATGGCCAAGGGCAGTGACAAGCGTCGGGGCGGTCTCCCA
GGCCCTCCCATCAGCCGTGGACTTCCCTTGTGGATGATGGTGGCTGGAACACAGTTCCCATCAGCAAAGGTAGC
CGCCCCATTGACACCTCAGCACTACCAAGATACCAAGCCTGGCTCCATCGATTCTAACAACCAGCTCTTTGCA
CCTGGAGGGCGACTGAGCTGGGGCAAGGGCAGCAGCGGAGGCTCAGGAGCCAAGCCCTCAGACGCAGCATCAGAA
GCTGCTCGCCAGCTACTAGTACTTTGAATCGCTTCTCAGCCCTTCAACAAGCGGTACCCACAGAAAGCACAGAT
AATAGACGTGTGGTGCAGAGGAGTAGCTTGAGCCGAGAACGAGGCGAGAAAGCTGGAGACCAGGAGACCGCCTA
GAGCGGAGTGAACGGGGAGGGGACCGTGGGGACCGGCTTGATCGTGCAGGACACCTGCTACCAAGCGGAGCTTC
AGCAAGGAAGTGGAGGAGCGGAGTAGAGAACGGCCCTCCAGCCTGAGGGGCTGCGCAAGGCAGCTAGCCTCAGC
GAGGATCGGGACCGTGGGCGGGATGCCGTGAAGCGAGAAGCTGCCCTACCCCCAGTGAGCCCCCTGAAGCGCGCT

1413/6881
FIGURE 1313B

CTCTCTGAGGAGGAGTTAGAGAAGAAATCCAAGGCTATCATTGAGGAATATCTCCATCTCAATGACATGAAAGTA
GGCAGTCCAGTGCGTGCAGGAGCTGGCCTCACCCCTCCTTGCTCTTCATCTTTGTACGGCATGGTGTGAGTCTAC
GCTGGAGCGCAGTGCCATTGCTCGTGAGCATATGGGGCAGCTGCTGCACCAGCTGCTCTGTGCTGGGCATCTGTC
TACTGCTCAGTACTACCAAGGGTTGTATGAAATCTTGGAATTGGCTGAGGACATGGAAATTGACATCCCCACGT
GTGGCTCTACCTAGCGGAACCTGGTAACACCCATTCTGCAGGAAGGTGGGGTGCCCATGGGGGAGCTGTTCAAGGA
GATTACAAAGCCTCTGAGACCGTTGGGCAAAGCTGCTTCCCTGTTGCTGGAGATCCTGGGCCTCCTGTGCAAAAG
CATGGGTCCTAAAAAGGTGGGGACGCTGTGGCGAGAAGCCGGGCTTAGCTGGAAGGAATTTCTACCTGAAGGCCA
GGACATTGGTGCATTTCGTCGCTGAACAGAAGGTGGAGTATACCCTGGGAGAGGAGTCGGAAGCCCCCTGGCCAGAG
GGCACTCCCCCTCCGAGGAGCTGAACAGGCAGCTGGAGAAGCTGCTGAAGGAGGGCAGCAGTAACCAGCGGGTGT
CGACTGGATAGAGGCCAACCTGAGTGAGCAGCAGATAGTATCCAACACGTTAGTTCGAGCCCTCATGACGGCTGT
CTGCTATTCTGCAATTATTTTGTGAGACTCCCCCTCCGAGTGGACGTTGCAGTGCTGAAAGCGCGAGCGAAGCTGCT
GCAGAAATACCTGTGTGACGAGCAGAAGGAGCTACAGGCGCTCTACGCCCTCCAGGCCCTTGTAGTGACCTTAGA
ACAGCCTCCCAACCTGCTGCGGATGTTCTTTGACGCACTGTATGACGAGGACGTGGTGAAGGAGGATGCCTTCTA
CAGTTGGGAGAGTAGCAAGGACCCCGCTGAGCAGCAGGGCAAGGGTGTGGCCCTTAAATCTGTACAGCCTTCTT
CAAGTGGCTCCGTGAAGCAGAGGAGGAGTCTGACCACAACCTGAGGGCTGGTGGGGCCGGGGACCTGGAGCCCCAT
GGACACACAGATGGCCCGGCTAGCCGCCTGGACTGCAGGGGGGCGGCAGCAGCGCGGTGGCAGTGGGTGCCTGT
AGTGTGATGTGTCTGAACTAATAAAGTGGCTGAAGAGGCAGGATGGCTTGGGGCTGCCTGGGCCCCCTCCAGGA
TGCCGCCAGGTGTCCCTCTCCTCCCCCTGGGGCACAGAGATATATTATATATAAAGTCTTGAAATTGGTGTGTC
TTGGGGTGGGGAGGGGCACCAACGCCTGCCCTGGGGTCCTTTTTTTTATTTTCTGAAAATCACTCTCGGGACTG
CCGTCTCGCTGCTGGGGGCATATGCCCCAGCCCCTGTACCACCCCTGCTGTTGCCTGGGCAGGGGGAAGGGGGG
GCACGGTGCCTGTAATTATTAAACAT

FIGURE 1314A

GCCGCGGCCACCGGAAGAGTCTCGCGTCCGCAGTCCAGTTCGGGAGAGTGGGAGCGGAAGCGCGGCCGCGCGCGG
 GCGCGGCCGCGCTGGGACCCGGTAGCGGCCGAGAACAAAGGGAGCTGGCGCCGCCAGCAGCCGCCGAGCTGGGTT
 GAGCCGCTGGGCCGCGCCGCGCGCCGCCGCTCTGGGAGGCTCGGCCCGGCCGCCGAGCAGGCCGCGCGCGG
 CCGCCGGGCCCCGAGGCCAGAGCCATGGGCGAGACCAAGATCATCTACCACTTGGATGGGCAGGAGACGCCGTACC
 TTGTGAAGCTGCCCCTGCCCGCCGAGCGCTCACCTTGGCGGACTTTAAGGGCGTTTTGCAGCGACCCAGCTATA
 AGTTCTTCTTCAAGTCTATGGACGACGATTTTCGGAGTGGTGAAGGAGGAGATCTCGGATGACAATGCCAAGCTAC
 CATGCTTCAATGGCCGGGTGGTGTCTTGGCTGGTGTCTAGCTGAGGGCTCACACCCAGACCCAGCCCCCTTCTGTG
 CTGATAACCCATCGGAGCTGCCACCACCTATGGAGCGCACGGGAGGCATCGGGGACTCCCAGACCCCATCCTTCC
 ACCCTCATGCTGGTGGGGGCGAGCCAGGAGAACCTGGACAATGACACAGAGACGGACTCTTTGGTGTCTGCCCAG
 GAGAGCGGCCACGCCGAGGGATGGCCAGAGCATGCAACCCGGCTAAATGGAAGTGCAGAGGGGGAACGGCGG
 GAGAACCAGGGGGTTATGATAGCTCATCCACCCTTATGAGCAGTGAGCTGGAGACCACCAGCTTCTTTGACTCAG
 ATGAGGATGACTCCACCAGCAGGTTTCAGCAGCTCCACAGAACAGAGCAGTGCCTCACGCCTGATGAGAAGACACA
 AGCGGCGCGCGCGGAAGCAGAAGGTTTTCTCGGATTGAGCGGTCTCTGTCCTTCAGCAGCATCACGGACTCCACCA
 TGTCACTCAACATCATCAGGTCACCTCTCAACATGGAATAATAACTTCTTGGGCATCTCCATTGTGGGCCAAA
 GCAACGAGCGTGGTGACGGCGGCATCTACATTGGCTCTATCATGAAGGGTGGGGCCGTGGCTGCTGATGGACGCA
 TCGAGCCAGGAGATATGTTGTTACAGGTAAACGAGATCAACTTTGAGAACATGAGTAATGACGATGAGTCCGGG
 TACTGCGGGAGATTGTGCACAAACCGGGGCCCATCACCTGACTGTAGCCAAGTCTGGGACCCAAGTCCACGTT
 GTTGTTCACATTGCCCAGGAGCGAGCCCATCCGGCCCATTGACCCTGCGGCCCTGGGTCTCCACACTGCAGCCA
 TGACCGGCACCTTCCCTGTCATACGGCATGAGCCCCCTCCCTGAGCACCATCACCTCCACCAGCTCCTCCATCACCA
 GTTCCATCCCTGACACAGAGCGCCTAGACGACTTCCACTTGTCCATCCACAGTGACATGGCTGCCATCGTAAAAG
 CCATGGCCTCCCCTGAATCAGGGTTGGAGGTCCGTGACCGCATGTGGCTCAAGATTACCATCCCTAATGCTTTCA
 TCGGCTCAGATGTGGTGGACTGGCTGTACCACAATGTGGAAGGCTTCACGGACCCGAGGGAGGCCCGCAAGTATG
 CCAGCAACCTGCTGAAAGCTGGCTTTCATCCGCCATACCGTCAACAAGATCACCTTCTCCGAGCAGTGCTACTACA
 TCTTCGGTGACCTCTGCGGCAACATGGCCAACCTGTCTCTCCACGATCACGATGGCTCCAGTGGCGCCTCTGACC
 AGGACACACTGGCCCCCTTTGCCGCACCCGGGGGCCGCCCTTGGCCCCATGGCTTTCCCGTACCAGTACCCGCCAC
 CCCCACACCCATACAACCCGCACCCGGGCTTCCCGGAGCTGGGCTACAGCTACGGCGGGGGGACGCGCCAGCAGTC
 AGCACAGCGAAGGCGAGTCGGAGCAGTGGCTCCAACCGTAGCGGCAGCGATCGGAGGAAGGAGAAGGACCCGAAG
 CCGGGGACTCCAAGTCCGGGGGACGCGGCAGCGAATCGGACCACACCACACGCGAGCAGCCTGCGGGGGGCCGCGGG
 AGCGGGCGCCAGCGAGCGCTCAGGGCCGGCGGCCAGCGAGCACAGCCACCCGAGCCACCATTCCCTGGCCAGCA
 GCCTTCGCAGCCACCACACACACCCGAGCTACGGTCTCTCCGGAGTGCCCCCTCTCTACGGCCCCCCCATGCTGA
 TGATGCCCCCGCCGCCCGCGGCCATGGGGCCCCCAGGAGCCCCCTCCGGGCCGCGACCTGGCCTCAGTGCCCCCGG
 AACTGACCGCCAGCAGACAGTCTTCCGATGGCCATGGGAAACCCAGTGAGTTCTTTGTGGATGTGATGTGAG
 CAGGGCCCCCTCCCCAGCTCCATTCCGCTCCCACCCAGCCGGCTGCGTTTCTCTCTCCATCCGTCCGTCTTTTT
 TACTTTGTCTGGTACCTGAAAGGGAAATAAAAGGAACTAAATCCAGGTGCGCTAACTGCTCGCAGGGTGTCTGCGA
 GGGTGGGGTGCACCTACCGATTGGCTCTGCAGCCCCCTAACCTGCCTCTGGCCCCAGTTCGTTTCTCTGCCCCAC
 TAATCCCTGCGCAGGACTTCCCAGGACCCCTTTTGTCTCTGGGACCAGACTTGTGTGGTGTACCCCTTACTCCCC
 TCTGCAACCCCATTTTGGGAGTTGACCCAGCAATGACCTTGGTGGCAGCTCACTCCCTCATCTCTCGTTTC
 CCCTTTAGCTCCCTTTCACCATTTATTCAGCTACATCATCCCTCTATTAACCCACCCCATCAGGCACGTTGCA
 AACCTCTTGACTTTACCCACATTACTGAAACCAAAATATATTTGCTTCACTGTGCCCTACTAACCATCCCCCTG
 CCTGCTGCTCAGTCTGCAACCTAAAGCTGTAGTGCCTCCATAGCCATCCATGCCATCCCTGCTGTGCCTA
 GCTCAGAGGCCACGAGGGCCCCCTCAGTTGCCTGAGCAGCTGGTGGCTTCACGGGAGCATCTGTCTTACCCCT
 GCCCCATGCTGCTGCGTGTGGTTCCCTTCCAGACCCCTAACCTTACTAACAGCAGGCTCATCTCACCTCCAG
 GCCTGAAACATTTCTTTTCTTTCTTTTCTTCTCCCAATTTTCCCTGGGCCTGGAGCAGCCAAGAATTTGCGGC
 TGTTTGACTTTCTGTGAGCCCCCAGCGAGGGGAGGCCAGCCTCCGAGGAGACCAGGAACCTGCTTCAGCAGCC
 CCTCAGGGCTTCCAAGGATGTCCAGCCCCACACCCACACGTTAACATAATGAGTCACTAGGCTTCTGGGGAGG
 GCCCAACTTACCCATGAGAGACTCTCCTCCTTTCCAGAGAGAATCGGATCGCACACCAGTGTGGCAGCCTG
 CGGCGGGGGGAGGGGGGGCCTCTTTAGCTCTCTTTATCTTTCTCTCTCACTCATGTATGCATACATGCACAGAGAT
 GCATACACAGGTGCCTATGCAAGTTCAATTTAAGCCTCAGGGCTGGTCCCTGCCCAAAGGGCTGGACCCCTCTAAT

1415/6881
FIGURE 1314B

CCTCTCCTAGGTTGTGGGGCTGGTCCCCTGACACCCTTCTCCCCTTCCTGGTAGACCTTAAACCTCGCACACATG
TCCCCAGCATTTCCTCACCTGGATAAAGCCCATAGCTGGGTCTCAGGCTGGGCTCAGCAAAGGACTCGCCTTGC
AACCAGACAGGCCATTCCACCCCCACACACAACCTCCCCTGTTTTACATTACCATGGCATCCCAGAGCAAGGA
CACAGGAGCCACAGGCCAGTTGAGGTTGGGCAAGGAGACTTCCAGGACTTCCAGACAGAGTACCAGGTTTTATT
TTTCACCTTATTCTCTACTTTAAACAAATCATAACTTCTCTTTAAGCCTCTGCTATAAATTCTCCTGGCTCTCC
TGGGCTTCCATATTTTGGGGGCTGGGGTGTCAAAGTGAGATGAAGTTCTTAGCTCCAGGTTTTGGGGTAAACCA
AGGTAGGAACATTTTGGCATTATTTCAATTAACAATACTTCCCTGGACGGGTGCGGTGGCTCACGTCTGTAATC
CCAGCACTTTGGGAGGCTGAGACAGGTGGATCACTTGAGGTGCGGAGTTCGAGACCAGCCTGGCCAACATAGCAA
AACCTGTCTCTACTAAAAATACAAAATTAGATGGGTGTTTTGGCACCTGCCTGTAATCTCAGCTACTCAGGAG
GCTGAGGCACAAGAATCGCTTGAATCCAGGAAGCAAGCGGAGGTTGCAGTGAGTTGAGATCGCACTCCAGCCTGG
GTGACAGAGTGAGATTCTGTCTCAAAGCAAATAACAAAGAAAAACAATACTTCTGGGGTTTTGGTGTGCAGA
GGGCTTTGTTGGAAGTGTGACTCAATCTTGCCTGCCTTCTGGGAGCTCTAGAATTGTTCCCAACCCAGTCCATGG
CTTCTAGCCACCACTACAGGGCTGTTTCATGTACTTCTCTCTGACTCTGTCTTGTCCGACTCTCTTGAGAATT
TCTCAACGATTGCTCATGCCTGTGCTAGTATCAGTGCTTCCATCGTTCCATCTTGATTCACTTCTCTTCTTTCT
ATTTACTCCCAAAATGGAGTCATTATCCTGATGTCTCAATTGCTGCTGATATGCTGGTGATTCCCAAAATACAT
AGCTCCAACCCCAACTTCCCCCAGACTTTAGATCTGTATTGGTATTACCTACTGGACATCTCTATGGACAGTTC
CGTATAGACTCAACTCATCTGCCCAACCAAGTATGTTCCCTCCTGAATTCCCTCCTGTTACTTCATCACAATCT
ACATAGGCTCACCAGCTAGAAACATTTATGAGCTTACATTCCTTCTTCCCATATCTTATCAGCATATCATATCCA
TTTCACTCCAACACTCTGTCTTGAATTGGCCCTCCCTCTCCCCTCTCTACTTTAATTCATTGGAGCATGGGATT
TGGAGTTAGGTGGTTTTGGGTTTGAATCCAGCTCTACTATTTTGGTTGTGTGATAGAGTTATTTAACCTCTCT
GAGCCTCAGTTCCCTCGTATGTAAATGATGATAATAATACCTACCTCACAGGGTTGTTGTGAGGATTTAAATTA
GATATTGTACGAAAAGTGCTTAGCACAGTGCCTGGCACACAGTAGAGTAGGTGCTCAATAAATGGTAGCTATTAT
TATT

1416/6881
FIGURE 1315

CCGAGGCAGCGGGCAGACGAGCAGGGGGCGGGCGGACATCTTGGGATCCGGAGAGTGGCCGGGCGGCAGAGCAG
GGGGCCGAGGACACCAGGTCTGTTCTCAGAGCGATGGGCCGCGGAGACTGATCTGCCGCCATGATTGGAGGCTTA
TTCATCTATAATCACAAGGGGGAGGTGCTCATCTCCCGAGTCTACCGAGATGACATCGGGAGGAACGCAGTGGAT
GCCTTTCGGGTCAATGTTATCCATGCCCGGCAGCAGGTGCGCAGCCCCGTACCAACATTGCTCGCACCAGCTTC
TTCCACGTTAAGCGGTCCAACATTTGGCTGGCAGCAGTCACCAAGCAGAATGTCAACGCTGCCATGGTCTTCGAA
TTCCTCTATAAGATGTGTGACGTGATGGCTGCCCTACTTTGGCAAGATCAGCGAGGAAAACATCAAGAACATTTT
GTGCTCATATATGAGCTGCTGGATGAGATTCTAGACTTTGGCTACCCACAGAATTCCGAGACAGGCGCGCTGAAA
ACCTTCATCACGCAGCAGGGCATCAAGAGTCAGATGTAGACAAAAGAAGAGCAGTCACAGATCACCAGCCAGGTA
ACTGGGCAGATTGGCTGGCGGCAGAGGGTATCAAGTATCGTCGGAATGAGCTCTTCCTGGATGTGCTGGAGAGT
GTGAACCTGCTCATGTCCCCACAAGGGCAGGTGCTGAGTGCCCATGTGTGGGCCGGGTGGTGTGAAGAGCTAC
CTGAGTGGCATGCCCTGAATGCAAGTTTGGGATGAATGACAAGATTGTTATTGAAAAGCAGGGCAAAGGCACAGCT
GATGAAACAAGCAAGAGCGGGAAGCAATCAATTGCCATTGATGACTGCACCTTCACCAGTGTGTGCGACTCAGC
AAGTTTGACTCTGAACGCAGCATCAGCTTTATCCCGCCAGATGGAGAGTTTGAGCTTATGAGGTATCGCACAAACC
AAGGACATCATCCTTCCCTTCCGGGTGATCCCGCTAGTGCGAGAAGTGGGACGCACCAAACCTGGAGGTCAAGGTG
GTCATCAAGTCCAACCTTTAAACCCTCACTGCTGGCTCAGAAGATCGAGGTGAGGATCCCAACCCCACTGAACACA
AGCGGGGTGCAGGTGATCTGCATGAAGGGGAAGGCCAAGTACAAGGCCAGCGAGAATGCCATCGTGTGGAAGATC
AAGCGCATGGCAGGCATGAAGGAATCGCAGATCAGCGCAGAGATTGAGCTTCTGCCTACCAACGACAAGAAGAAA
TGGGCTCGACCCCCCATTTCCATGAACTTTGAGGTGCCATTTCGCGCCCTCTGGCCTCAAGGTGCGCTACTTGAAG
GTGTTTGAACCGAAGCTGAACTACAGCGACCATGATGTATCAATGGGTGCGCTACATTGGCCGAGTGGCATT
TATGAAACTCGCTGCTAGCTGCCACTAGGCAGCTAGCCCACCTCCCCAGCCACCTCCTCCACAGGTCCAGGTGC
CGCTCCCTCCCCCACCACACACTAGTGTCTCCTCCCTCCTGCTTTGCTGCCTTCCCTTTGCACCAGCCCGAGTCT
AGGTCTGGGCCAAGCACATTACAAGTGGGACCGGTGGAGCAGCCCCCTGGGCTCCCTGGGCAGGGGAGTCTGAGG
CTCCTGCTCTCCCATCCACCTGTCTGTCTTGGCCTAATGCCAGGCTCTGAGTTCTGTGACCAAAGCCAGGTGGGT
TCCCTTTCCTTCCCAACCCTGTGGCCACAGCTCTGGAGTGGGAGGGTTGGTTGCCCTCACCTCAGAGCTCCCC
AAAGGCCAGTAATGGATCCCCGGCCTCAGTCCCTACTCTGCTTTGGGATAGTGTGAGCTTCATTTGTACACGTG
TGACTTCGTCCAGTTACAAACCAATAAACTCTGTAGAGTGG

1417/6881
FIGURE 1316

GGTGGGCCCCACACAAGCGGCGCACCGTTAAGATGCGGGCTGGGCTGCGGAAACGCGGCCGGTCCGGTTCCGCGGC
CCAGGCAGAGGGACTCTGCAAGCAATGGCTGCAGCGCGCCTGGCAAGAGCGGCGCCTGCTGCTGCGGGAGCCGCG
CTACACGCTGCTGGTGGCCGCTGCCTCTGCCTGGCGGAGGTGGGCATCACCTTCTGGGTCAATCACAGGGTGGC
ATACACAGAGATTGACTGGAAGGCCTACATGGCCGAGGTAGAAGGCGTCATCAATGGTACCTATGACTATACCCA
ACTGCAGGGTGACACCGGACCACTTGTGTACCCAGCTGGTTTCGTGTACATCTTTATGGGGTTGTACTATGCCAC
CAGCCGAGGCACTGACATCCGCATGGCCAGAACATCTTTGCTGTGCTCTACCTGGCTACCTTGCTGCTTGTCTT
CTTGATCTATCACCAGACCTGCAAGGTACCTCCCTTCGTCTTTTTCTTCATGTGCTGCGCCTCTTACCGTGTCCA
CTCCATCTTTGTGCTGCGGCTCTTCAATGACCCAGTGGCCATGGTGTGCTCTTCTCAGTATCAACCTCCTGCT
GGCCCAGCGCTGGGGCTGGGGCTGCTGCTTTTTTCAGCCTGGCAGTCTCTGTGAAGATGAATGTGCTGCTCTTCGC
CCCTGGGTTACTGTTTCTTCTCCTCACACAGTTTGGCTTCCGTGGGGCCCTCCCAAGCTGGGAATCTGTGCTGG
CCTTCAGGTGGTGTGCTGGGGCTGCCCTTCTGCTGGAGAACCCAGCGGCTACCTGTCCCGCTCCTTTGACCTTGG
CCGCCAGTTTCTGTTCCACTGGACAGTGAAGTGGCGCTTCTTCCAGAGGCGCTCTTCTGCATCGAGCCTTCCA
CCTGGCCCTGTTGACTGCCCCACCTCACCTGCTCCTGCTGTTTGCCCTCTGCAGGTGGCACAGGACAGGGGAAAG
TATCTTGTGCTGCTGAGGGATCCCTCCAAAAGGAAGGTTCCACCCAGCCCCTTACACCAACCAGATCGTTTC
TACCCTCTTCACCTCCAATTCAATTGGCATCTGCTTCAGCCGCTCCCTCCACTACCAGTTCTACGCTCTGGTATTT
CCACACACTGCCCTACCTCCTGTGGGCCATGCCGTGCACGGTGGCTCACACACCTGCTCAGGTTGTTGGTGTGCTGG
GCTCATCGAGCTCTCCTGGAACACATACCCTTCCACATCCTGCAGCTCTGCTGCCCTGCACATATGCCATGCCGT
CATCCTGCTGCAGCTCTGGCTGGGCGCGCAGCCTTTCCCAAGAGCACCAACACAGCAAGAAAGCCCACTGAAG
TCCACCCCTTTCCCTCAGGACCTGAGTCTACCCTCAGGACCTGGGGTGGGTGGACTCTGCCCTTCCAAATAAAC
CTTGCTAAGTCCAAAAAAAAAAAAAAAAAAAAAAAAA

1418/6881
FIGURE 1317

MAAGLRKRGRSGSAAQAEGLCQWLQRAWQERRLLLREPRYTLLVAACLCLAEVGITFWVIHRVAYTEIDWKAYM
AEVEGVINGTYDYTQLQGDITGPDVYPAGFVYIFMGLYYATSRGTDIRMAQNIFAVLYLATLLLVFLIYHQTCKVP
PFVFFFMCASYRVHSIFVLRLFNDEPVAMVLLFLSINLLLAQRWGWGCCFFSLAVSVKMNVLFFAPGLLFLLLTQ
FGFRGALPKLGICAGLQVVLGLPFILLENPSGYLSRSFDLGRQFLFHWTNVNWRFLPEALFLHRAFLALLTAHLTL
LLLFALCRWHRTGESILSLLRDP SKRKVPPQPLTPNQIVSTLFTSNFIGICFSRSLHYQFYVWYFHTLPYLLWAM
PARWLTHLLRLVLGLIELSWNTYPSTSCSSAALHICHAVILLQLWLGPQFPKSTQHSSKKAH

1419/6881

141976881
FIGURE 1318

[illegible]

1420/6881
FIGURE 1319

MASPGAGRAPPPELPERNCGYREVEYWDQRYQGAADSAPYDWF GDFSSFRALLEPELRPEDRILVLGCGNSALS YE
LFLGGFPNVTISVDYSSVVVAAMQARYAHVPQLRWETMDVRKLDFFSASFDDVLEKGTLDALLAGERDPWTVSSEG
VHTVDQVLSEVSRVLVPGGRFISMTSAAPHFRTRHYAQAYYGWSLRHATYGSGFHFHLYLMHKGGKLSVAQLALG
AQILSPPRPPTSPCFLQSDHEDFLSAIQL

1421/6881
FIGURE 1320

GAGGCTGCGCGCCGCAGGTTCCGGCTGCTGGCGGCGTTGCGGCCGCAGGTTTACTCCCGTGCGGTGCGGCCAG
CAGCCACAAAGCTCCCGCTGCCATTGCTCCTTGTA TCTCCCGCGTCACTGCCGCTGTCCAACCCCTCCCGGGG
CTTGCGCGGCGGCTCCACACCCCTCGGCCCGGTACGCGCTCTGCACCTGCCCTGCCCCGAAAACATGTTGCAGAC
ACCAGAGAGCAGGGGGCTCCCGGTCCCGCAGGCCGAGGGGAGAGGATGGCGGCCATGATGGTGAGACCCGGGC
CCCGACCGCTCGCAGGAGCGCCCAAGGAGGAGCTTGGCGCCGGGAGGGAGGAGGGGGCTGCGGAGCCCGCCCT
CACCCGGAAAGGCGCGAGGGCCTTGGCGGCCAAAGCCTTGGCAAGGCGCAGGGCCTACCGCGGCTGAATCGGAC
GGTGGCGGAGTTGGTGAGTTCTCCTGGTGAAAGACAAGAAGAGTCCCATCACACGCTCGGAGATGGTGAA
ATACGTTATTGGAGACTTGAAGATTCTGTTCCCGGACATCATCGCAAGGGCCGCAGAGCATCTGCGGTATGTCTT
TGGTTTTGAGCTGAAACAGTTTGACCGCAAGCACCACACTTACATCCTGATCAACAACTAAAACCTCTGGAGGA
GGAGGAGGAGGAGATCTGGGAGGAGATGGCCCCAGATTGGGTCTGTTAATGATGATCCTGGGCCTTATCTATAT
GAGAGGTAATAGCGCCAGGGAGGGCCAGGTCTGGGAGATGCTGCGTGGTTGGGGGTGCAACCCCTCAAAGTATCA
TTTCCTCTTTGGGTATCCGAAGAGGCTTATTATGGAAGATTTTGTGCAGCAGCGATATCTCAGTTACAGGCGGGT
GCCTCACACCAATCCACCAGAATATGAATTCTCTTGGGGTCCCCGAAGCAACCTGGAAATCAGCAAGATGGAAGT
CCTGGGGTTCTGTGGCCAACTGCATAAGAAGGAACCGCAGCACTGGCCAGTGCAGTACCGTGAGGCCCTAGCAGA
CGAGGCCGACAGGGCCAGAGCCAAGGCCAGAGCTGAAGCCAGTATGAGGGCCAGGGCCAGTGCTAGGGCCGGCAT
CCACCTCTGGTGAGGGTTGGTGAAAAGTTGGCCAGTGGGTCCCCGTGAGGACGAACCTACTGTCTGAGTCATAAG
TAATATGGGTGGGGCGAGGGTCTTATTTCTGTAGAAATCGTGTGACTTTAAGGATTTAGATTTTGTATCTTATGT
TTTGTAACATTTAATAATTACTGTTAAATGCTGTTTGTAAATGAGATTGGTCTACTTTTTCTGTAGGATTTTA
TTGTAGAGTTTGTCTGGTTTGTAAAATGGATGGAAGAACTTTGTATTTATACTGTGATTTTGAACAGATTATGC
AACATTGGAAGGAAGGCTGTACTTTGATGGTTTGAAGGAACTCAGCAGTATGATGATCTGGTTCCAGGGGAAAAA
AATAGCTGGTTGGTGTCTAGCCCCCAACACTTTTGTCTGTTGTGTATAAAAGAAGAAAGACTGGCATGTACCTT
CATTTGCTTAGCTATTTGAGTATCTAGAGAAAAATTAATGAATGAGTTAGCAGTATACCCCTGGCACACTTAA
TAAATTAAACATTTGTGGAGC

1422/6881

FIGURE 1321

MLQTPESRGLPVPQAEGEKDGGHGGETRAPTASQERPKEELGAGREEGAAEPALTRKGARALAAKALARRRAYRR
LNRTVAELVQFLLVKDKKKSPITRSEMVKYVIGDLKILFPDIIARAAEHLRYVFGFELKQFDRKHHTYILINKLK
PLEEEEEEDLGGDGPRLLGLMMILGLIYMRGNSAREAQVWEMLRRLGVQPSKYHFLFGYPKRLIMEDFVQORYLS
YRRVPHTNPPEYEFWSGPRSNLEISKMEVLGFVAKLHKKEPQHWPVQYREALADEADRARAKARAEASMRARASA
RAGIHLW

1423/6881
FIGURE 1322

AGAGCTATGGCTCGAATTCCCAGAGTTCGAGGTGGTGGGACTCACCGCTCTGGCCAGGGTGCTTTTGGAAACATG
TGTCGTGGAGGCCGAAGTTTGCACCAACCAAAACCTGGCGCCGTTGGCATCGTAGAGTGAACACAACCCAAAA
CGATATGCCATCTGTCTGCCCTGGCTGCCTCAGCCCTACCAGCACTGGTCATGTCTAAAGGTCATCGTATTGAG
GAAGTTCCTGAACCTTCCTTTGGTATTTGAAGATAAAGTTGAAGGCTACAAGAAGACCAAGGAAGCTGTTTTGCTC
CTTAAGAACTTAAAGCCTGGAATGATATCGAAAAGGCAGCAGCTACCAAGAAACCAGCCCCTGAAAAGAAGCCT
GCAGAAAAGAAACCTACTACAGAGGAAAAGAAGCCTGCTGCATAAACTCTTAAATTGATTATTCCATAAAGGTC
AAATCATTTTGGACAGCTTCTTTTGAATAAAGACCTGATTATACAGGC

1424/6881

FIGURE 1323

ATTCCCAGAGTTCGAGGTGGTGGGACTCACCGCTCTGGCCAGGGTGCTTTTGAAACATGTGTCGTGGAGGCCGA
AGGTTTGCACCAACCAAAACCTGGCGCCGTTGGCATCGTAGAGTGAACACAACCCAAAAACGATATGCCATCTGT
TCIGCCCTGGCTGCCTCAGCCCTACCAGCACTGGTCATGTCTAAAGGTCATCGTATTGAGGAAGTTCCTGAACTT
CCTTTGGTATTTGAAGATAAAGTTGAAGGCTACAAGAAGACCAAGGAAGCTGTTTGTCTCCTTAAGAACTTAAA
GCCTGGAATGATATCGAAAAGGTCTATGCCTCTCAGCGAATGAGAGCTGGCAAAGGCAAGAAGCCTGTGGTAGGT
AAGAAAGGAAAGAAGGCTGCTGTTGGTGTTAAGAAGCAGAAGAAGCCTCTGGTGGGAAAAAGGCAGCAGCTACC
AAGAAACCAGCCCCTGAAAAGAAGCCTGCAGAAAAGAAACCTACTACAGAGGAAAAGAAGCCTGCTGCATTAAACT
CTTAAATTTGATTATTCCATAAAGGTCAAATCATTTTGGACAGCTTCTTTGAATAAAGACCTGATTATACAGGC
AGTGAGGAA

1425/6881

FIGURE 1324

MCRGGRRFAPTKTWRRWHRRVNTTQKRYAICSALAASALPALVMSKGHRIEEVPELPLVFEDKVEGYKKTKEAVL
LLKKLKAWNDIEKVYASQRMRACTGKKPVVGKKGKKAAGVKKQKKPLVGKKAATKKPAPEKKPAEKKPTTEEK
KPAA

1426/6881
FIGURE 1325

ATGACTGGAGTGAAGCTGGTCCTGAACTCGAGGCTGTGGAAAGCGCTCATGGAAAAGGCCTGTGCAAAATTATTA
CCCTTCTGTGAAGTACTTAAACCTACTCAAGGTGCAAGCTTTACACACCAATGCCGGGCTTGATTAATGGTATC
AGAGGAGITTCGGTTCCCCCGAGTTTTCTCCACCCTCTGAAAATGCGGCCGGAACCCCTAATCCGCTGCGAGGCT
GCAGCATCTTTCGGTGCTGTCCCTCCACACCCGTGTTATCCCCACCATCCCCAGGCCGCTGTTCCGGCTGCACT
TGCTGTGTCATTTACCCCTCCCGGTGCTCTGGGGGGCAGCGCCTCTCAGACATTCCCCTCAAAC TGCTCCCG
CCCCCTCCTCCCAACTGCGGAGCTCCGCCAAGCGTCTTCTCGCGAGCCTCCAAGTCCCCTCGGGGCTCTCGAA
TCTCCAGAGACTGTGAAAGCCTCGCAACTCCGCGATCCCCATCCACTCGGGAGCCCCGCACTCGCGCTCCGGG
GCGCCTCCCCCAGCAGTGTGAAAGCCGCTCTCCCCGCGCTCCGGAACCGTTAGCCGCACCCGCCGACGCCTC
CCAGGAACCAAACCGGACCGGGCCGCGGGGGGAGGGGGCGGTCAACCCGGGGGGGGTCACCCCAGCTACTGCACC
CCGACTTTGAAGATTCTGAATCAGCCCGTGAAC TCTAGCCGGCTGGGCCTGTTCGGACCAGTGGCCGGACGCCCT
TCCGATCTCCCCCTGCCCCGCAAAGCCCCCTCACCTGAGGCGGCCTCTCTCTCCCTTGCAAGCGGCCCGGC
GGCGCAGGCGGCTCACGCACGCGCGCAGCGGGCCTGGGCGCCTGGGCGAAAGGCTGGGCCGAACCGCTCCGAAG
ACGGTGAACCGCTCCGCGCACCAGCGGCTGGACTCTGCGCCGAGCTGCCAACCAGGCTGGAGCGCTGGCCCGGC
CCCCCGCGGCTCGCTGCTCCGCCCCGCCATTGGCCCGCGGCCTAG

1427/6881
FIGURE 1326

MTGVKLVLSRLWKALMEKACAKLLPFCEVLKTYSRCKLYTPMPGLINGIRGVRFPPEFSPPSENAAGTLIRCEA
AASFGAVPSTPVLSPSPGRCSGCTCLCHLPPPGALGGSASQTFPSNCFPPPPNCGAPPSVSSREPPSPLGALE
SPETVKASQLRDPPSTREPPHSRSGAPPPRRVESRSPRAPEPLAAPARRLPGTKPDRAAGGGGQPGGGHPSYCT
PTLKILNQPVNSSRLGLSDQWPDAPSDLPPAPAKPPHLRRLSSPCSGPGGAGALTHARSGPGRLLGERLGRTPAK
TVNRSAHQRLDSAPQLPTRLERWFGPPRLAAPPAAIGPRP

1428/6881
FIGURE 1327

AATTCCGGTTGAAACCATCCCTCAGCTCCTAGAGGGAGATTGTTAGATCATGAACTAATTACCATCCTTTTCCT
CTGCTCCAGGCTACTACTAAGTTTAAACCAGGAATCACAGTCCGAGGAAATTGACTGCAATGACAAGGATTTATT
TAAAGCTGTGGATGCTGCTCTGAAGAAATATAACAGTCAAACCAAAGTAACAACAGTTTGTATTGTACCGCAT
AACTGAAGCCACTAAGACGGTTGGCTCTGACACGTTTTATTCCTTCAAGTACGAAATCAAGGAGGGGATTGTCC
TGTTCAAAGTGGCAAACCTGGCAGGACTGTGAGTACAAGGATGCTGCAAAAGCAGCCACTGGAGAATGCACGGC
AACCGTGGGGAAGAGGAGCAGTACGAAATTCTCCGTGGCTACCCAGACCTGCCAGATTACTCCAGCCGAGGGCCC
TGTGGTGACAGCCCAGTACGACTGCCTCGGCTGTGTGCATCCTATATCAACGCAGAGCCCAGACCTGGAGCCCAT
TCTGAGACACGGCATTCACTACTTTAACAACAACACTCAACATTCCCTCCCTCTTCATGCTTAATGAAGTAAACG
GGCCCAAAGACAGGTGGTGGCTGGATTGAACTTTGAATTACCTACTCAATTGTGCAAACGAATTGTTCCAAAGA
GAATTTTCTGTTCTTAAGTCCAGACTGCAAGTCCCTTTGGAATGGTGATACCGGTGAATGTACAGATAATGCATA
CATCGATATTCAGCTACGAATTGCTTCCTTCTCACAGAACTGTGACATTTATCCAGGGAAGGATTTTGTACAACC
ACCTACCAAGATTTGCGTGGGCTGCCCCAGAGATATACCCACCAACAGCCCAGAGCTGGAGGAGACACTGACTCA
CACCATCACAAGCTTAATGCAGAGAATAACGCACTTTCTATTCAAGATTGACAATGTGAAAAAGCAAGAGT
ACAGGTGGTGGCTGGCAAGAAATATTTATTGACTTCGTGGCCAGGGAAACCACATGTTCCAAGGAAAGTAATGA
AGAGTTGACCGAAAGCTGTGAGACCAAAAACTTGCCAAAGCCTAGATTGCAACGCTGAAGTTTATGTGGTACC
CTGGGAGAAAAAATTTACCCTACTGTCAACTGTCAACCACTGGGAATGATCTCACTGATGAAAAGGCCTCCAGG
TTTTTACCTTTCCGATCATCACGAATAGGGGAAATAAAGAAGAAACAAGTACCTAAGGTCTTGCAGTA
CAAGGTCGACCCCCAAAGGCAGGGCCAGAGCCAGCATCTGAGAGGGAGGTCTCTTGACCAATGGGCAGAATCTT
CACTCCAGGCACATAGCCCCAACCACTCTGCCAGCAACCTTGAGAGGAAGGACAAGAAGAAAGATGGGATAGAA
TTTAAATAGAGAAGAATGCCATTTATCACTCTGCCCTCTGGGTGAAATAAAGATCAGTCTTGATGTTT

1429/6881
FIGURE 1328

MKLITILFLCSRLLLSLTQESQSEEIDCNDKDLFKAVIDAALKKYNSQNQSNNQFVLYRITEATKTVGSDTFYSFK
YEIKEGDCPVQSGKTWQDCEYKDAKAATGECTATVGKRSSTKFSVATQTCQITPAEGPVVTAQYDCLGCVHPIS
TQSPDLEPILRHGIQYFNNNTQHSSLFMLEVKRAQRQVVAGLNFRTYSIVQTNCSENFLEFLTPDCKSLWNGD
TGECTDNAYIDIQLRIASFQNCDIYPGKDFVQPPTKICVGCPRDIP TNSPELEETLHTITKLNAENNATFYFK
IDNVKKARVQVVAGKKYFIDFVARETTCSKESNEELTESCETKKLGQSLDCNAEVYVVPWEKKIYPTVNCQPLGM
ISLMKRPPGFSFPRSSRIGEIKEETTSHLRSCEYKGRPPKAGAEPASEREVS

1430/6881
FIGURE 1329

GGCGGGAAGTCTGAGGCGACTGTGGGGACATCAGTGATCGTAAGTCTCCTGGGCCCCGTTATTCTCAGATTAGGTGAC
GGAGCTAAGACTTCGAGACCATCTCGTCCTTTTTGTATCGCGGAAACCTGAGGAACGAGCCGGCGCGGTGACCT
GCACGAGAAGCCAGGCTAACTGGGTGAAGTACCATGCAAGCATTCTTAAAGGTACATCCATCAGTACTAAACCC
CCGCTGACCAAGGATCGAGGAGTAGCTGCCAGTGCGGGAAGTAGCGGAGAGAACAAGAAAGCCAAACCCGTTCCC
TGGGTGGAAAAATATCGCCCAAATGTGTGGATGAAGTTGCTTTCCAGGAAGAAGTGGTTGCAGTGCTGAAAAAA
TCTTTAGAAGGAGCAGATCTTCCTAATCTCTTGTTTTACGGACCACCTGGAAGTGGAAAAACATCCACTATTTTG
GCAGCAGCTAGAGAACTCTTTGGGCCTGAACTTTCCGATTAAAGAGTTCTTGAGTTAAATGCATCTGATGAACGT
GGAATACAAGTAGTTCGAGAGAAAGTGAAAAATTTTGCTCAATTAAGTGTGTCAGGAAGTCGCTCAGATGGGAAG
CCGTGTCCGCCCTTTTAAGATTGTGATTCTGGATGAAGCAGATTCTATGACCTCAGCTGCTCAGGCAGCTTTAAGA
CGTACCATGGAGAAGGAGTCGAAAACCAACCCGATTCTGTCTTATCTGTAAGTATGTCAGTCGAATAATTGAACCC
CTGACCTCTAGATGTTCAAAATTCGCTTCAAGCCTCTGTGATGATAAAATTCACAGCAGCGATTACTAGACATT
GCCAAGAAGGAAAATGTCAAAATTAGTGATGAGGGAATAGCTTATCTTGTTAAAGTGTGAGAAGGAGACTTAAGA
AAAGCCATTACATTTCTTCAAAGCGCTACTCGATTAAAGGTGGAAAGGAGATCACAGAGAAAGTGATTACAGAC
ATTGCTGGGGTAATACCAGCTGAGAAAATTGATGGAGTATTTGCTGCCTGTCAGAGTGGCTCTTTTGACAACTA
GAAGCTGTGGTCAAGGATTTAATAGATGAGGGTCATGCAGCAACTCAGCTCGTCAATCAACTCCATGATGTGGTT
GTAGAAAATAACTTATCTGATAAACAGAAGTCTATTATCACAGAAAACTTGCCGTAATTGACAAATGCCTAGCA
GATGGTGCTGATGAACATTTGCAACTCATCAGCCTTTGTGCAACTGTGATGCAGCAGTTATCTCAGAATTGTTAA
CGTGAATATATCTGGATGGGGGGTTTTGTAAATAATGAAGTTGTAATAAAAAATAAAATGACCAAAAGCACC

1431/6881
FIGURE 1330

CCTCCAACCACCTGCACGCCTGCCTGCCAGGGCCTCTCTGGGGCAGCCATGAAGTCCCTCGTCCTGCTCCTTTGT
CTTGCTCAGCTCTGGGGCTGCCACTCAGCCCCACATGGCCCAGGGCTGATTTATAGACAACCGAACTGCGATGAT
CCAGAACTGAGGAAGCAGCTCTGGTGGCTATAGACTACATCAATCAAAACCTTCCTTGGGGATACAAACACACC
TTGAACCAGATTGATGAAGTAAAGGTGTGGCCTCAGCAGCCCTCCGGAGAGCTGTTTGAGATTGAAATAGACACC
CTGGAAACCACCTGCCATGTGCTGGACCCACCCCTGTGGCAAGATGCAGCGTGAGGCAGCTGAAGGAGCATGCT
GTGGAAGGAGACTGTGATTTCCAGCTGTTGAACTAGATGGCAAGTTTTCCGTGGTATACGCAAAATGTGATTCC
AGTCCAGACTCAGCCGAGGACGTGCGCAAGGTGTGCCAAGACTGCCCCCTGCTGGCCCCGCTGAACGACACCAGG
GTGGTGCACGCCGCGAAAGCTGCCCTGGCCGCCTTCAACGCTCAGAACAACGGCTCCAATTTTCAGCTGGAGGAA
ATTTCCCGGGCTCAGCTTGTGCCCCCTCCACCTTCTACCTATGTGGAGTTTACAGTGTCTGGCACTGACTGTGTT
GCTAAAGAGGCCACAGAGGCAGCCAAGTGTAACCTGCTGGCAGAAAAGCAATATGGCTTTTGTAAAGGCAACACTC
AGTGAGAAGCTTGGTGGGGCAGAGGTTGCAGTGACCTGCACGGTGTTCCAAACACAGCCCGTGACCTCACAGCCC
CAACCAGAAGGTGCCAATGAAGCAGTCCCCACCCCGTGGTGGACCCAGATGCACCTCCGTCCCCCTCCACTTGGC
GCACCTGGACTCCCTCCAGCTGGCTCACCCCCAGACTCCCATGTGTTACTGGCAGCTCCTCCAGGACACCAGTTG
CACCGGGCGCACTACGACCTGCGCCACACCTTCATGGGTGTGGTCTCATTGGGGTCACCCTCAGGAGAAGTGTG
CACCCCCGAAAACACGCACAGTGGTGCAGCCTAGTGTGGTGCTGCTGCTGGGCCAGTGGTTCCTCCATGTCCG
GGGAGGATCAGACACTTCAAGGTCTAGGCTAGACATGGCAGAGATGAGGAGGTTTGGCACAGAAAACATAGCCAC
CATTTTGTCCAAGCCTGGGCATGGGTGGGGGGCCTTGTCTGCTGGCCACGCAAGTGTACATGCGATCTACATTA
ATATCAAGTCTTGACTCCCTACTTCCCGTCATTCTCACAGGACAGAAGCAGAGTGGGTGGTGGTTATGTTTGAC
AGAAGGCATTAGGTTGACAACCTTGTGATGATTTTGACGGTAAGCCACCATGATTGTGTTCTCTGCCTCTGGTTGA
CCTTACAAAACCATTTGGAAGTGTGACTTTGAAAGGTGCTCTTGCTAAGCTTATATGTGCCTGTTAATGAAAGTG
CCTGAAAGACCTTCCTTAATAAAGAAGGTTCTAAGCTG

1432/6881
FIGURE 1331

MKSLVLLLCLAQLWGCHSAPHGPGLIYRQPNCDDEPETEEAALVAIDYINQNLPGYKHTLNQIDEVKVWPQQPSG
ELFEIEIDTLETTCHVLDPTPVARCSVRQLKEHAVEGDCDFQLLKLDGKFSVVYAKCDSSPDSAEDVRKVCQDCP
LLAPLNDTRVVHAAKAAALAFNAQNNGSNFQLEEISRAQLVPLPPSTYVEFTVSGTDCVAKATEAAKCNLLAEK
QYGFCKATLSEKLGGAEVAVICTVFQTQPVTSQPQPEGANEAVPTPVVDPDAPPSPPLGAPGLPPAGSPPD SHVL
LAAPPQHQLHRAHYDLRHTFMGVVSLGSPSGEVSHPRKTRTVVQPSVGAAAGPVVPPCPGRIRHFKV

1433/6881
FIGURE 1332

TTTCTTTAAGAGGAAGACGCGGTTCGTAGGTGCGAGGATTTCTGGTCCGCATGCTCCTGCTCCTGACTCACCGCTG
TTCGCTCTCGCCGCCGAGGAACAAGTCGGTCATGAAGCCGCGCAGCAGCCATGGCTTTTAAGGATACCGGAAAAG
CACCCGTGGAGCCGGAGGTGGCAATTCACCGAATTCGAATCACCCCTAACAAGCCGCAGCGTAAAATCCTTGAAAA
AGGTGGGTGCTGACTTGATCAGAGGCGCAAAAGCAAAGAATCTCAAAGTGAAAGGAGGAGTTCGAATGCCTTCCA
AGACTTTGAGAATCACTACAAGAAAACTCCTTGTGGTGAAGGTTCTAAGACGTGGGATCGTTTCCAGATGAGAA
TTCACAAGCGACTCTTTGACTTGACAGTCCTTCTGAGATTGTTAAGCAGATTACTTCCATCAGTACTGAGCCAG
GAGTTGAGGTGGAAGTCACCATTGCAGATGCTTAAGTCAACTATTTTAATAAATTGATTACCAGTTGTT

1434/6881

FIGURE 1333

GGAAAGACTATGTTTTAGGTGACCCGTGTGGCCTTTTTGTTGAGGCCTTTAGGATACAAGGCCCCACCTAAAGA
CGCGACCCTCCCGTAGGAGGGGGGCGAGGGCCCGGGGCGGGAGCACAGCGGGGCCCCAGCCTCAGGCGGCGCGTC
ACTGAGCACAAAGGAGACAACAGCGAGGCGGCAGCGGGCGCTGATCTTCGCTCGCCAGCCACTCGCAATTGCGGT
TACAGACCTGCAGCTCCCCCTCCCCCAGCCGGCCCGCCCGCCTTTCTGTCTCTCTCCCTCCGTACTGGACGG
CCCCGGTCCATTTCCGGGCTCCGGATATTGGTATCGATTGGGGCCGGGACGCGGAGCAGGTGGCCGCGGGGG
GCAGCTGGGCGGCCAGCTTGGTGCCCTCGGGGACCGTCTCCCGCTGCTTTGGTCAACAGCCCCTGCCGCCCCGACC
CGCTCCGTTCTCCGGCCTGCGAGCCCTGCCGGCCGACTTTGCGCCGCGTCCGGCGCTGCTGCTGCGCTCGGGGC
CCCGCTCGGCGCCGGCGGTGACCGGGAAGCCCGCTTAAAGGGGCAACCGGACCCCTGGCCCCGTATGGCTGAAG
TCAGCATCGACCAGTCCAAGCTGCCTGGAGTCAAGGAAGTATGCCGAGATTTGCTGTCTGGAGGACCACACCC
TGGCTCACAGCCTGCAGGAACAAGAGATTGAGCATCATTGGCATCGAACGTTTCAGCGGAACCGTTTGGTCCAGC
ATGATCTCCAGGTGGCTAAGCAGCTCCAAGAGGAAGATCTGAAAGCGCAGGCCCAGCTCCAGAAGCGCTACAAAG
ACCTTGAACAACAAGACTGTGAAATTGCTCAGGAAATTGAGGAGAAGCTGGCTATTGAGGCAGAGAGACGACGCA
TTCAGGAGAAGAAGGATGAGGACATAGCTCGCCTTTTGCAAGAAAAGGAGTTACAGGAAGAGAAAAAGAGAAAGA
AACACTTTCCAGAGTTCCCTGCAACCCGTGCTTATGCAGATAGTTACTATTATGAAGATGGAGGAATGAAGCCAA
GAGTGATGAAAGAAGCTGTATCTACTCCATCAGCAATGGCCACAGGGATCAGGAATGGTATGATGCTGAAATTG
CCAGAAAAGTGAAGAAGAAGAACTTTTGGCTACCCAGGTGGACATGAGAGCCGCTCAAGTAGCTCAAGATGAAG
AAATCGCTCGACTTCTAATGGCTGAAGAAAAGAAAGCTTACAAAAAGCCAAGGAGCGGGAGAAATCATCTTTGG
ACAAAAGAAAGCAAGACCCCGAGTGGAAGCCAAAACAGCTAAAGCAGCAAATTTCAAGTCAAAGAGAGTGATG
AACCTCACCATTTCTAAGAATGAAAGGCCAGCACGGCCACCACCTATCATGACAGATGGTGAAGATGCGGATT
ACACTCATTTTACAAACCAGCAGAGTTCCACACGGCATTCTCAAAATCAGAGTCCTCTCATAAAGGTTTTCATT
ACAAACATTAACCTAGGAATCTGCCTTGAAAATGGACTCACTATAGCAAATATTACTGGGTGATACAGAATG
AATTCTACACTTACTTTTTTCTCCTGTGTTTGCATTCTGGGATTATCCTCAAGTGCAATTTCTGACCATAAGT
AATTTAATTCATTTCAAATGTTTGGTTATTCTATGATCACTTGGGCAGTATAAGAAAATGTAGCTTCTGAATAT
TGGCCACCTCTATGCTGCATATACTTCTTGGGATATAGTATCTAAGACCTTTGTAACTGCCATTTTGTAGGTA
TGGAGTTTGGTATCTAGGGAGTAGGCCTTATTTAGCAATTCAAATTTTATGGAGATGAATGATCAAAGTGAAACA
ATGTTTGGATGCAACGCAGAATAAAAGAATATAAGAAATAGCTTTTGTGTCATTAAATGTATGATATTTGAAGG
ACAGAGCCTTTGCTTTTTGTATTCTTTAAGAAAAGCACAACCATAAAGTATTTTAAAAAAGAAACACTTGGAGC
AATTGAAATATGTTATTCTGACTAGATGGACTGTAGAGGTTTGCATTTCTCAGCCCTCCTGGGGAGATTGGCCT
AGATAGCATTCTTAACACTTCCCTCTGCTTTTGCCTCAGTAGCAAGGCTTTCCTAAGCTCCTGGGCAATGGAACA
TTTATTAGTATTTATTGACAAAAATTTAGTTCTCTGAAATTTTAACTCATATATATGAAAACTTTGTATTCCAT
CTCTCTTTTTCATTTACTTGTAGAGCCAAGGAAATGGAATTGAAAGATGATTGCATAAGTAATGATGCCATCCT
TCTCTGCGCTGTAGACTGAGGCTTTTCTCTTGCCTTCAAGTCAGAGCAGTATTTGTTGATAACCTCTCAATAATG
TTTGGTTTACATGCCAGTAATTAATAATTCAACATGAAGTTGAATTTGATGAAGTGGTCATCTATCCAAGTAT
TTGGTTTTTGTGTTTTGTTTTGTTTTTGGAGTTGGAGTCTCGCCCTGTCACACAGGCTGGAGTGCAGTGGTG
CAATCTTGGCTCACTGCAACCTCCGCCACCTGGGCTGGAGCAATTCCTGCTCAGCTCCCAAGTAGCTGGAA
TTACAGGCATGTGTCACCACACCCGGCTAATTTTTGTATTTTAGTAAAGAGCGGGTTTCACCATGTTGGCCAGG
CTGGTCTCGAACCCCTGACCTCAAGTGATCCACCTGC

1435/6881
FIGURE 1334

MAEVSIDQSKLPGVKEVCRDFAVLEDHTLAHSLQEQEIEHHLASNVQRNRLVQHDLQVAKQLQEEDLKAQAQLQK
RYKDLEQQDCEIAQEIQEKLAIEAERRRIQEKKDEDIARLLQEKELQEEKRKKHFFPEFPATRAYADSYYYEDGG
MKPRVMKEAVSTPSRMAHRDQEWYDAEIARKLQEEELLATQVDMRAAQVAQDEEIARLLMAEEKKAYKKAKEREK
SSLDKRRQDPEWKPKTAKAANSKSKESDEPHHSKNERPARPPPPIMTDGEDADYTHFTNQSSSTRHFSKSESSHK
GFHYKH

1436/6881
FIGURE 1335A

CGTTGATATCAAAGACAGTTGAAGGAAATGAATTTTGAACCTTCACGGTGTGCCACCCTACAGTACTGCCCTGAC
CCTTACATCCAGCGTTTCGTAGAAACCCAGCTCATTCTCTTGGAAAGAAAGTTATTACCGATCCACCATGTCC
CAGAGCACACAGACAAATGAATTCCTCAGTCCAGAGGTTTTCCAGCATATCTGGGATTTTCTGGAACAGCCTATA
TGTTTCAGTTTCAGCCATTGACTTGAACCTTTGTGGATGAACCATCAGAAGATGGTGGCACAACAGATTGAGATT
AGCATGGACTGTATCCGCATGCAGGACTCGGACCTGAGTGACCCCATGTGGCCACAGTACACGAACCTGGGGCTC
CTGAACAGCATGGACCAGCAGATTGAGAACGGCTCCTCGTCCACCAGTCCCTATAACACAGACCACGCGCAGAAC
AGCGTCACGGCGCCCTCGCCCTACGCACAGCCAGCTCCACCTTCGATGCTCTCTCTCCATCACCCGCCATCCCC
TCCAACACCGACTACCCAGGCCCCGACAGTTTCGACGTGTCTTCCAGCAGTCGAGCACCGCCAAGTCGGCCACC
TGGACGTATTCCTGAACTGAAGAACTCTACTGCCAAATGCAAAGACATGCCCCATCCAGATCAAGGTGATG
ACCCACCTCCTCAGGGAGCTGTTATCCGCGCCATGCCTGTCTACAAAAAGCTGAGCAGCTCAGGAGGTGGTG
AAGCGGTGCCCAACCATGAGCTGAGCCGTGAATTAACGAGGGACAGATTGCCCTCTAGTCAATTGATTGCGA
GTAGAGGGGAACAGCCATGCCAGTATGTAGAAGATCCCATCACAGGAAGACAGAGTGTGCTGTTGAGGGATG
CCACCCAGGTTGGCACTGAATTCACGACAGTCTGTACAATTCATGTGTAACAGCAGTTGTGTTGGAGGGATG
AACCGCCGTCCAATTTTAATCATTGTTACTCTGGAAACCAGAGATGGGCAAGTCTGGGCCGACGTGCTTTGAG
GCCCCGATCTGTGCTTGCACAGGAAGAGACAGGAAGGCGGATGAAGATAGCATCAGAAAGCAGCAAGTTTCGGAC
AGTACAAAGAACGGTGATGGTACGAAGCGCCCGTTTCGTACAGAACACATGGTATCCAGATGACATCCATCAAG
AAACGAAGATCCCCAGATGATGAAGTGTATACCTTACCAGTGAGGGGCGGTGAGACTTATGAAATGCTGTTGAAG
ATCAAAGAGTCCCTGGAACCTCATGCAGTACCTTCCCTCAGCACACAATTGAAACGTACAGGCAACAGCAACAGCAG
CAGCACCAGCACTTACTTCAGAAACAGACCTCAATACAGTCTCCATCTTCATATGGTAACAGCTCCCCACCTCTG
AACAAATGAACAGCATGAACAAGCTGCCTTCTGTGAGCCAGCTTATCAACCCTCAGCAGCGCAACGCCCTCACT
CCTACAACCATTCCTGATGGCATGGGAGCCAACTTCCCATGATGGGCACCCACATGCCAATGGCTGGAGACATG
AATGGACTCAGCCCCACCCAGGCACTCCCTCCCCCACTCTCCATGCCATCCACCTCCCACTGACACCCCCACCT
CCGTATCCCACAGATTGCAGCATTGTCAGTTTCTTAGCGAGGTTGGGCTGTTTCATCATGTCTGGACTATTTACG
ACCCAGGGGTGACCACCATCTATCAGATTGAGCATTACTCCATGGATGATCTGGCAAGTCTGAAAATCCCTGAG
CAATTTGACATGCGATCTGGAAGGGCATCCTGGACCACCGGCAGCTCCACGAATTCCTCCCTTCTCATCTC
CTGCGGACCCCAAGCAGTGCCCTCTACAGTCAGTGTGGGCTCCAGTGAGACCCGGGGTGAGCGTGTTATTGATGCT
GTGCGATTACCCCTCCGCCAGACCATCTCTTTCCACCCCGAGATGAGTGGAATGACTTCAACTTTGACATGGAT
GCTCGCCGCAATAAGCAACAGCGCATCAAAGAGGAGGGGAGTGAAGCCTCACCATGTGAGCTCTTCTATCCCTC
TCCTAACTGCCAGCYCCCTAAAAGCACTCCTGCTTAATCTTCAAAGCCTTCTCCCTAGCTCCTCCCTTCTCTCT
GTCTGATTTCTTAGGGGAAGGAGAAGTAAGAGGCTACCTCTTACCTAACATCTGACCTGGCATCTAATTCTGATT
CTGGCTTTAAGCCTTCAAACCTATAGCTTGCAGAACTGTAGCTGCCATGGCTAGGTAGAAGTGAGCAAAAAAGAG
TTGGGTGTCTCCTTAAGCTGCAGAGATTCTCATTGACTTTTATAAAGCATGTTTACCCTTATAGTCTAAGACTA
TATATATAAATGTATAAATATACAGTATAGATTTTTGGGTGGGGGCATTGAGTATTGTTTAAATGTAATTTAA
ATGAAAGAAAATTGAGTTGCACTTATTGACCAATTTTTAATTTACTTGTGTTTGGATGGCTGTCTATACTCCTTC
CCTTAAGGGGTATCATGTATGGTGATAGGTATCTAGAGCTTAATGCTACATGTGAGTGACGATGATGTACAGATT
CTTTCAGTTCTTTGGATTCTAAATACATGCCACATCAAACCTTTGAGTAGATCCATTTCCATTGCTTATTATGTA
GGTAAGACTGTAGATATGTATTCTTTTCTCAGTGTGGTATATTTTATATTACTGACATTTCTCTAGTGATGAT
GGTTCACGTTGGGGTGATTTAATCCAGTTATAAGAAGAAGTTCATGTCCAAACGTCCTCTTTAGTTTTTGGTTGG
GAATGAGGAAAATTTTAAAGGCCCATAGCAGCCAGTTCAAAAAACCCCGACGTCATGTATTGAGCATATCAG
TAACCCCTTAAATTTAATACCAGATACCTTATCTTACAATATTGATTGGGAAAACATTTGCTGCCATTACAGAG
GTATTAATAAATAAATTTCACTACTAGATTGACTAACTCAAATACACATTTGCTACTGTTGTAAGAATTCTGATTG
ATTTGATTGGGATGAATGCCATCTATCTAGTTCTAACAGTGAAGTTTTACTGTCTATTAATATTCAGGGTAATA
GGAATCATTTCAGAAATGTTGAGTCTGTACTAAACAGTAAGATATCTCAATGAACCATAAATTCACCTTTGTAAAA
ATCTTTTGAAGCATAGATAAATATTGTTTGGTAAATGTTTCTTTTGGTAAATGTTTCTTTTAAAGACCTCC
TATTCTATAAACTCTGCATGTAGAGGCTTGTTTACCTTTCTCTCTAAGGTTTACAATAGGAGTGGTGATTG
AAAAATATAAAATTTATGAGATTGGTTTTCTGTGGCATAAATGCATCACTGTATCATTTTCTTTTAAACGGT
AAGAGTTTCAGTTTGTGGAAAGTAAGTGTGAGAACCCAGTTTCCCGTCCATCTCCCTTAGGGACTACCCATAGA
CATGAAAGGTCCCCACAGAGCAAGAGATAAGTCTTTTCATGGCTGCTGTTGCTTAAACCACTTAAACGAAGAGTTC

1437/6881
FIGURE 1335B

CCTTGAAACTTTGGGAAAACATGTTAATGACAATATTCCAGATCTTTCAGAAATATAACACATTTTTTTGCAATGC
ATGCAAATGAGCTCTGAAATCTTCCCATGCATTCTGGTCAAGGGCTGTCAATTGCACATAAGCTTCCATTTTAATT
TTAAAGTGCAAAGGGGCCAGCGTGGCTCTAAAAGGTAATGTGTGGATTGCCTCTGAAAAGTGTGTATATATTTTG
TGTGAAATTGCATACCTTGTATTTTGATTATTTTTTTTTTCTTCTTGGGATAGTGGGATTTCCAGAACCACACTT
GAAACCTTTTTTATCGTTTTTGTATTTTCATGAAAATACCATTTAGTAAGAATAACCACATCAAATAAGAAATAA
TGCTACAATTTTAAGAGGGGAGGGAAGGGAAAGTTTTTTTTTATTATTTTTTTAAATTTTGTATGTTAAAGAGA
ATGAGTCCTTGATTTCAAAGTTTTGTTGTACTTAAATGGTAATAAGCACTGTAACTTCTGCAACAAGCATGCAG
CTTTGCAAACCCATTAAGGGGAAGAATGAAAGCTGTTCCCTGGTCTAGTAAGAAGACAACTGCTTCCCTTACT
TTGCTGAGGGTTTGAATAAACCTAGGACTTCCGAGCTATGTCAGTACTATTACAGGTAACACTAGGGCCTTGGA
TTCTGTACTGTGTCTCATGGATTTGGCACTAGCCAAAGCGAGGCACCCTTACTGGCTTACCTCCTCATGGCAGC
CTACTCTCCTTGAGTGTATGAGTAGCCAGGGTAAGGGGTAAAAGGATAGTAAGCATAGAAACCACTAGAAAGTGG
GCTTAATGGAGTTCTTGTGGCCTCAGCTCAATGCAGTTAGCTGAAGAATTGAAAAGTTTTTGTGTTGGAGACGTTT
ATAAACAGAAATGAAAGCAGAGTTTTTCATTAAATCCCTTTTACCTTTTTTTTTTCTTGGTAATCCCCTAAATAA
CAGTATGTGGGATATTGAATGTTAAAGGATATTTTTTCTATTATTTTATAATTGTACAAAATTAAGCAAAT
GTTAAAAGTTTTATATGCTTTATTAATGTTTTCAAAGGTATTATACATGTGATACATTTTTTAAGCTTCAGTTG
CTTGTCTTCTGGTACTTTCTGTTATGGGCTTTTGGGGAGCCAGAAGCCAATCTACAATCTCTTTTTGTTTGCCAG
GACATGCAATAAAATTTAAAAAATAAATAAAACTAATTAAGAAATAAA

1438/6881
FIGURE 1336

MNFETSRCATLQYCPDPYIQRVETPAHFSWKESYYRSTMSQSTQTNEFLSPEVFQHIWDFLEQPICSVQPIDLN
FVDEPSEDGATNKIEISMDCIRMQSDLSDFPMWFOYTNLGLLNSMDQQIQNGSSSTSPYNTDHAQNSVTAPSPYA
QPSSTFDALSPSPAIPSN TDYPGPHSFDVSFQQSSTAKSATWTYSTELKKLYCQIAKTCPIQIKVMTPPPQGAVI
RAMPVYKKAHVTEVVKRCPNHEL SREFNEGQIAPP SHLIRVEGNSHAQYVEDPITGRQSVLVPYEPPQVGTEFT
TVLYNFMCNSSCVGGMNRRPILIIIVTLETRDGQVLGRRCFEARICACPGDRKKADEDSIRKQQVSDSTKNGDGTK
RPFQNTHTGIQMTSIKKRRSPDDELLYLPVRGRETYEMLLKIKESLELMQYLPQHTIETIRQQQQQHQLLQKQ
TSIQSPSSYGNSPPLNKMNSMNKLPSVSQLINPQQRNALTPTTIPDGMGANIPMMGTHMPMAGDMNGLSPTQAL
PPPLSMPSTSQCTPPPPYPTDCSIVSFLARLGCSSCLDYFTTQGLTTIYQIEHYSMDDLASLKIPEQFRHAIWKG
ILDHRQLHEFSSPSHLLRTPSSASTVSVGSSETRGERVIDAVRFTLRQTISFPFRDEWNDNFNFDMDARRNKQORI
KEEGE

1439/6881
FIGURE 1337

CATTTTGCGAAGTTTAACCACCCGGGTACCGCCGTTCTTGTCAACCACTGGTTTTGTAAACAGTTGCGAGAAC
CTTCTCCTTCTTTTTCTTTTCAACCTTGGATTTAGCGGCTGAGTACTTCCTCTTGTACATGGCCTTTCGGAATC
CATGGCAGATCGGGAATACCTGCCAATTCCTCTGACAAGGACAGGGTTGCGGCTGCAATGGGGCTTCCCCTTGTT
GGGCTTTTGTAGCTTTGAGGTTACCCCTTTTTCACCTTGCCACCAGCATCAACCTTCTTGGCTTCGGGTTCTTCTC
TTTAG

1440/6881
FIGURE 1338

ATGCCTGCTGCCACGTGGCTGGTCCTCCTCCTGCTGTGGCTGAGCCTTGGGGTGAAGACAGCTTCTCAGATG
ACCAAGATGGTGTGTCAGATGGTGTGAGGATGGAGAACCCACCAAGCCCCGCTAGGAGCCACCTAGACTGGATG
CAGAGCATGGAAATAAGCCTCGGTGTGGAGAGGGCCTGTCTCAGGGCCTGGCAGATGTAGGCGATTCTTACCAC
GTCTCCTTCGCTACCCCGAAAGGCACAATCATAGGCCTTCTCGTCTTTTAAGGGTTTTTACTTCCATGGGGAAC
TATGTGTTGGATGAGAAAAGTATCCGGGGAAGGGGACAGAGGTTAGAAAAGCTCTGCGAGTCTTGGACGCTGGTC
TGCTTCTTGGCTCACCCTGGAAGGTGGACGCTGGCCCCACACATCCCCTCTTAAAGACGCAGGCCGATAGCCAG
CAGATCCTGGGGCTTGGTGGCCCCAAAGCAGACACTGCGATGACAACGGACGACACAGAAGTGCCCCGCTATGACT
CTAGCACCAGGGCCACGCCGCTCTGGAACTCAAACGCTGAGCGCTGAGACCTCTTCTAGGGCCTCAACCCAGCC
GGCCCCATTCCAGAAGCAGAGACCAGGGGAGCCAAGAGAATTTCCCCTGCAAGAGAGACCAGGAGTTTACAAAA
ACATCTCCCAACTTCATGGTGTGATCGCCACCTCCGTGGAGACATCAGCCGCCAGTGGCAGCCCCGAGGGAGCT
GGAATGACCACAGTTCAGACCATCACAGGCAGTGATCCAGGGAAGCCATCTTTGACACCTTTGCACCGATGAC
AGCTCTGAAGAGGCAAAGACACTCACAATGGACATATTGACATTGGCTCACACCTCCACAGAAGCTAAGGGCCTG
TCCTCAGAGAGCAGCGCTCTTCCGACAGCCCCATCCAGTCATCACCCTGTCACGGGCCTCAGAGAGCAGCGCC
TCTTCCGACGGCCCCCATCCAGTCATCACCCTGTCACGGGCCTCAGAGAGCAGCGCTCTTCCGACGGCCCCCAT
CCAGTCATCACCCTGTCACGGGCCTCAGAGAGCAGCGCTCTTCCGACGGCCCCCATCCAGTCATCACCCTGTC
CGGGCCTCAGAGAGCAGCGCTCTTCCGACGGCCCCCATCCAGTCATCACCCTGTCACGGGCCTCAGAGAGCAGC
GCCTCTTCCGACGGCCCCCATCCAGTCATCACCCTGTCACGGGCCTCAGAGAGCAGCGCTCTTCCGACGGCCCC
CATCCAGTCATCACCCTGTCACGGGCCTCAGAGAGCAGCGCTCTTCCGACGGCCCCCATCCAGTCATCACCCTG
TCACGGGCCTCAGAGAGCAGCGCTCTTCCGACGGCCCCCATCCAGTCATCACCCTGTCACGGGCCTCAGAGAGC
AGCGCTCTTCCGACGGCCTCCATCCAGTCATCACCCTGTCACGGGCCTCAGAGAGCAGCGCTCTTCCGACGGC
CCCCATCCAGTCATCACCCTGTCACGGGCCTCAGAGAGCAGCGCTCTTCCGACGGCCCCCATCCAGTCATCACC
CCCTCATGGTCCCCGGGATCTGACGTCACTCTCCTCGCTGAAGCCCTGGTGACTGTACAAACATCGAGGTTATT
AATTGCAGCATCACAGAAATAGAAACAACGACTTCCAGCATCCCTGGGGCCTCAGACACAGATCTCATCCCCACG
GAAGGGGTGAAGGCCTCGTCCACCTCCGATCCACCAGCTCTGCCTGACTCCACTGAAGCAAAACACACATCACT
GAGGTCACAGCCTCTGCCGAGACCCTGTCCACAGCCGGCACCACAGAGTCAGCTGCACCTGATGCCACGGTTGGG
ACCCCACTCCCCACTAACAGCGCCACAGAAAGAGAAGTGACAGCACCCGGGGCCACGACCCTCAGTGGAGCTCTG
GTCACAGTTAGCAGGAATCCCCTTGAAGAAACCTCAGCCCTCTCTGTTGAGACACCAAGTTACGTCAAAGTCTCA
GGAGCAGCTCCGGTCTCCATAGAGGCTGGGTGAGCAGTGGGCAAAACAACCTTCTTGTGGGAGCTCTGCTTCC
TCCTACAGCCCCCTCGGAAGCGCCCTCAAGAACTTACCCCTTTCAGAGACACCGACCATGGACATCGCAACCAAG
GGGCCCTTCCCCACCAGCAGGGACCTCTTCTTCTGTCCCTCCGACTACAACCAACAGCAGCCGAGGGACGAAC
AGCACCTTAGCCAAGATCACAACCTCAGCGAAGACCACGATGAAGCCCCAACAGCCACGCCACGACTGCCCGG
ACGAGGCCGACCACAGACGTGAGTGCAGGTGAAAATGGAGGTTTCTCCTCCTGCGGCTGAGTGTGGCTTCCCCG
GAAGACCTCACTGACCCAGAGTGGCAGAAAGGCTGATGCAGCAGGAGAGGCTAACGGACATCAGCTGCAGCCAG
GCATGTCCCGTATGCCAAAAGAGGGTGTGCCCCTAGCCTGGGCCCCACCGACAGACTGCAGCTGCGTTACTGT
GCTGAGAGGTACCCAGAAGGTTCCCATGAAGGGCAGCATGTCCAAGCCCCTGACCCAGATGTGGCAACAGGACC
CTCGCTCACATCCACCGGAGTTTTGTTACATTGTACGTGCTCGAGGACAAGCAGCCGGTAGTATTACCTCTGT
ATCACAGAAGCTGGCGTGGAGCCCTCCACATGA

1441/6881
FIGURE 1339

MTTDDTEVPAMTLAPGHALETQTLAETSSRASTPAGPIPEAETRGAKRISPARETRSFTKTSFNFMVLIATSV
ETSAASGSPEGAGMTTVQTIITGSDPREAIFDTLCTDDISEEAKTLTMDILT LAHTSTEAKGLSSESSASSDGPH
VITPSRASESSASSDGLHPVITPSRASESSASSDGLHPVITPSRASESSASSDGPHVITPSWSPGSDVTLLEA
LVTVTNIEVINCSITEIETTTSSIPGASDLDLIPTEGVKASSTSDPPALPDSTNTKPHITEVTASAETLSTAGTT
ESAAPDATIGTPLPTNSTIEREVTAPGATTLGALATGNPLEETSALSVETPSYVKVSGAAPVSI EAGSAVGKTT
SFAGSSASSYSPLAALKNFTPSETLTDDIATKGPFPTSRAPLPSVPPTTTNSS

1442/6881
FIGURE 1340A

ACGCCACCCCTCTTCCTGTCAACAGCCTTTCCTCAGTATCCACAGGTCACGCCACCCCTCTTGCTGTCAAGCAGTG
CTACCTCAGCTTCCACAGTATCCTCGGACTCCCCTCTGAAGATGGAAACACCAGGAATGACAACACCGTCACTGA
AGACAGACGGTGGGAGACGCACAGCCACATCACCACCCCCACAACCTCCCAGACCATCATTTCCACCATTTCCCA
GCACTGCCATGCACACCCGCTCCACAGCTGCCCCATCCCCATCCTGCCTGAGAGAGGAGTTTCCCTCTTCCCT
ATGGGGCAGGCGCCGGGACCTGGAGTTCGTCAAGAGGACCGTGGACTTCACCTCCCCACTCTTCAAGCCGGCGA
CTGGCTTCCCCCTTGGCTCCTCTCTCCGTGATTCCCTCTACTTCACAGACAATGGCCAGATCATCTTCCCAGAGT
CAGACTACCAGATTTTCTCTACCCCAACCCACTCCCAACAGGCTTCACAGGCCGGGACCCCTGTGGCCCTGGTGG
CTCCGTTCTGGGACGATGCTGACTTCTCCACTGGTCGGGGGACCACATTTTATCAGGAATACGAGACGTTCTATG
GTGAACACAGCCTGCTAGTCCAGCAGGCCGAGTCTTGGATTAGAAAGATGACAAACAACGGGGCTACAAGGCCA
GGTGGGCCCTAAAGGTACGTGGGTCAATGCCACGCCTATCCTGCCAGTGGACCCTCGGGAGCAACACCTACC
AAGCCATCCTCTCCACGGACGGGAGCAGGTCTATGCCCTGTTCTCTACCAGAGCGGTGGGATGAGTGGGACG
TGGCCACAGCCTCAGGCAACCCGGTGTCTATGGGCTTCTCTAGTGGAGATGGCTATTTGAAAACAGCCCACTGA
TGTCCCAGCCAGTGTGGGAGAGGTATCGCCCTGATAGATTCTGAATTCCAACAGGCCTCCAAGGGCTGCAGT
TCTACAGGCTACACCGGGAAGAAAGGCCCACTACCGTCTCGAGTGCCTGCAGTGGCTGAAGAGCCAGCCTCGGT
GGCCAGCTGGGGCTGGAACAGGTCTCCTGCCCTTGTTCCTGGCAGCAGGGACGACGGGACTTACGATTCCAAC
CCGTACAGATAGGTGCTGCGGCTCGGCAGTAGGCAGTCTGTGAGCTTCACCTCTTGGCGAGGAGCGTGTGCT
GCAGCTACGGGCCCCGAGGAGGTTTCGTGAAGCTGGCAGCTGCAGCGTCCCTTGGCAGTTGGCCAGGAAGTGG
AGCCACAGAGCTGGTGTGCTGCGCTGGAATGACAAGCCCTACCTCTGTGCCCTGTACCAGCAGAGGCGGCCACG
TGGGCTGTGCTACATACAGGCCCCACAGCCCGCTGGATGTTTCGGGGACCCCAACATCACCACCTTGGATGGTG
TCAGTTACACCTTCAATGGGCTGGGGGACTTCTGCTGGTGGGGCCCAAGACGGGAAGTCTCCTCTCTGCTTC
AGGGCCGACCCGCCAGACTGGCTCAGCCAGGCCACCAACTTCATCGCCTTTGCGGCTCAGTACCGCTCCAGCA
GCCTGGGCCCCGCTCAGGTCCAATGGCTCCTTGAGCCTCAGCAGCAATCCGTGTCTGCTGGATAACAGACTG
TGACATTTACGCTGACCATGAAGACGGCGGAGGCCAGGAGACGTTCAACGCCACCGGAGTCTCCTGAGCCGCA
ACGGCTCTGAGGTCTCGGCCAGCTTCAGCGGTGGGCCACCGTCTCGGTGATCGCGCTCTCCAACATCCTCCAG
CCTCCGCCAGCCTCCCGCCGAGTACCAGAACCGCACGGAGGGGCTCCTGGGGGTCTGGAATAACATCCAGAGG
ACGACTTCAGGATGCCAATGGCTCCACCATTCCCCAGGGAGCCCTGAGGAGATGCTTTTCCACTTTGGAATGA
CCTGGCAGATCAACGGGACAGGCTCCTTGGCAAGAGGAATGACCAGCTGCCTTCCAACCTTACCCCTGTTTTCT
ACTCACAAGTCAAAAAAACAGCTCCTGGGTGAACATTTGATCTCCAAGTGTGACGGAGATAGCTCATGCATCT
ATGACACCTTGGCCCTGCGCAACGCAAGCATCGGACTTCACACGAGGGAAGTCAGTAAAACTACGAGCAGGCGA
ACGCCACCTCAATCAGTACCCGCCCTCCATCAATGGTGGTCTGTGATTGAAGCCTACAAGGGGCAGACCACGC
TGATTAGTACACAGCAATGTGAGGATGCCAAGTTCACGCTCAGAGACAGCTGCACCGACTTGGAGCTCTTTG
AGAATGGGACGTTGCTGTGGACACCAAGTCTGTGGAGCCATTCACTCTGGAGATTCTAGCAAGAAGTGCCAAGA
TTGGCTTGGCATCTGCACTCCAGCCAGGACTGTGGTCTGCCATTGCAATGCAGAGAGCCAGTGTTTGTACAATC
AGACCAGCAGGGTGGGCAACTCCTCCCTGGAGGTGGCTGGCTGCAAGTGTGACGGGGGCACCTTCGGCCGCTACT
GCGAGGGCTCCGAGGATGCCTGTGAGGAGCCGTGCTTCCCGAGTGTCCACTGCGTTCTGGGAAGGGCTGCGAGG
CCTGCCCTCCAAACCTGACTGGGGATGGGCGGCACTGTGCGGCTCTGGGGAGCTCTTCTGTGTGAGAACCACT
CCTGCCCTGTGAATTACTGCTACAATCAAGGCCACTGCTACATCTCCAGACTCTGGGCTGTGAGCCCATGTGCA
CCTGCCCCCAGCCTTCACTGACAGCCGCTGCTTCTGGCTGGGAACAACCTTCACTCCAAGTGTCAACCTAGAAC
TTCCCTTAAGAGTCAATCAGCTCTTGCTCAGTGAAGAGGAAAATGCCTCCATGGCAGAGTCAACGCCCTCGGTGG
CATAAGACTGGGGACCTGGACATGCGGGCTTTCTCCGCAACAGCCAAGTGGAAACGAATCGATTCTGCAGCAC
CGGCCTCGGGAAGCCCCATCCAACACTGGATGGTCACTCTCGGAGTTCAGTACCGCCCTCGGGGCCCGGTCAATG
ACTTCTGAACAACAGCTGTGGCCGCGGTGGTGGAGGCGTTCTTATACCAGTTCCACGGAGGAGTGAGGAGC
CCAGGAACGACGTGGTCTTCCAGCCCATCTCCGGGAAGACGTGCGCGATGTGACAGCCCTGAACGTGAGCACGC
TGAAGGCTTACTTCAGATGCGATGGCTACAAGGCTACGACCTGGTCTACAGCCCCAGAGCGGCTTACCTGCG
TGTCCCCGTGCAGTAGGGGCTACTGTGACCATGGAGGCCAGTGCACAGCCTGCCAGTGGGCCCCGCTGCAGCT
GTGTGCTCTTCTCCATCTACACGGCTGGGGCGAGCACTGTGAGCACCTGAGCATGAACTCGACGCTTCTTCG
GCATCTTCTTTGGGGCCCTGGGCGGCTCTTGCTGCTGGGGTGGGACGTTCTGTGCTCTGCGCTTCTGGGGT
GCTCCGGGGCCAGGTTCTCCTATTCTGAACTCAGCTGAGGCTTGCCTTGAAGGGCAGCTGTGGCTAGGCT

1443/6881

FIGURE 1340B

ACCTCAAGACTCACCTCATCCTTACCGCACATTTAAGGCGCCATTGCTTTTGGGAGACTGGAAAAGGGAAGGTGA
CTGAAGGCTGTCAGGATTCTT

1444/6881
FIGURE 1341

AGTTCTGTGGAGCAGCGGTGGCCGGCTAGGATGGGCTGTCTCTGGGGTCTGGCTCTGCCCCTTTTCTTCTTCTGC
TGGGAGGTTGGGGTCTCTGGGAGCTCTGCAGGCCCCAGCAGCCGCGAGAGCAGACACTGCGATGACAACGGACGAC
ACAGAAGTGCCCGCTATGACTCTAGCACCGGGCCACGCCGCTCTGGAACTCAAACGCTGAGCGCTGAGACCTCT
TCTAGGGCCTCAACCCAGCCGGCCCCATTCCAGAAGCAGAGACCAGGGGAGCCAAGAGAAATTTCCCTGCAAGA
GAGACCAGGAGTTTCACAAAACATCTCCCAACTTCATGGTGCTGATCGCCACCTCCGTGGAGACATCAGCCGCC
AGTGGCAGCCCCGAGGGAGCTGGAATGACCACAGTTCAGACCATCACAGGCAGTGATCCCGAGGAAGCCATCTTT
GACACCCCTTTGCACCGATGACAGCTCTGAAGAGGCAAAGACACTCACAATGGACATATTGACATTGGCTCACACC
TCCACAGAAGCTAAGGGCCTGTCTCAGAGAGCAGTGCCCTCTTCCGACGGCCCCCATCCAGTCATACCCCGTCA
CGGGCCTCAGAGAGCAGCGCCTCTTCCGACGGCCCCCATCCAGTCATCACCCCGTCACGGGCTCAGAGAGCAGC
GCCTCTTCCGACGGCCCCCATCCAGTCATCACCCCGTCACGGGCTCAGAGAGCAGCGCCTCTTCCGACGGCCCC
CATCCAGTCATCACCCCGTCATGGTCCCGGGATCTGATGTCACTCTCCTCGCTGAAGCCCCCTGGTGACTGTAC
AAACATCGAGGTTATTAATTGCAGCATCACAGAAATAGAAACAACAACCTCCAGCATCCCTGGGGCTCAGACAT
AGATCTCATCCCCACGAAGGGGTGAAGGCCTCGTCCACCTCCGATCCACCAGCTCTGCCTGACTCCACTGAAGC
AAAACACACATCACTGAGGTACAGCCTCTGCCGAGACCCTGTCTCAGCCCTCTCTGTTGAGACACCAAGTTA
CGTCAAAGTCTCAGGAGCAGCTCCGGTCTCCATAGAGGCTGGGTGAGCAGTGGGCAAACAACCTCCTTTGCTGG
GAGCTCTGCTTCCTCTACAGCCCTCGGAAGCCGCCCTCAAGAACTTCACCCCTTCAGAGACACCGACCATGGA
CATCGCAACCAAGGGGCCCTTCCCCACCAGCAGGGACCCCTCTTCTTCTGTCCCTCCGACTACAACCAACAGCAG
CCGAGGGACGAACAGCACCTTAGCCAAGATCACAACCTCAGCGAAGACCAGATGAAGCCCCAACAGCCACGCC
CACGACTGCCCGGACGAGGCCGACCACAGACGTGAGTGCAGGTGAAAATGGAGGTTTCTCTCCTGCGGCTGAG
TGTGGCTTCCCCGGAAGACCTCACTGACCCAGAGTGGCAGAAAGGCTGATGCAGCAGCTCCACCGGGAACCTCA
CGCCACGCGCCTCACTTCCAGGTCTCCTTACTGCGTGTGAGGAGAGGCTAACGGACATCAGCTGCAGCCAGGCA
TGTCCCGTATGCCAAAAGAGGGTGCTGCCCTAGCCTGGGCCCCCACCAGACAGCTGCAGCTGCGTTACTGTGCT
GAGAGGTACCCAGAAGGTTCCCATGAAGGGCAGCATGTCCAAGCCCCTAACCCAGATGTGGCAACAGGACCCCTC
GCTCACATCCACCGAGTGTATGTATGGGGAGGGGCTTACCTGTTCCAGAGGTGTCCTTGACTCACCTTGGC
ACATGTTCTGTGTTTCAGTAAAGAGAGACCTGATCACCATCTGTGTGCTTCCATCCTGCATTAAAAITCACTCA
GTGTGGCCCCAG

1445/6881
FIGURE 1342

MGCLWGLALPLFFFCWEVGVSGSSAGPSTRRADTAMTTDDTEVPAMTLAPGHAALETQTLAETSSRASTPAGPI
PEAETRGAKRISPAARETRSFTKTSPNFMVLIATSVETSAASGSPEGAGMTTVQTITGSDPEEAIFDTLCTDDSSSE
EAKTLTMDILTTLAHTSTEAKGLSSESSASSDGPHPVITPSRASESSASSDGPHPVITPSRASESSASSDGPHPVIT
TPSRASESSASSDGPHPVITPSWSPGSDVTLAEALVTVTNIEVINCSITEIETTTSSIPGASDIDLIPTEGVKA
SSTSDPPALPDSTEAKPHITEVTASAETLSTAGTTESAAPHATVGTPLPTNSATEREVTAPGATTLSCALVTVSR
NPLEETSALSVETPSYVKVSGAAPVSI EAGSAVGKTTSFAGSSASSYSPSEALKNFPTSETPTMDIATKGPFPPT
SRDPLPSVPPTTTNSSRGTNSTLAKITTS AKTTMKPPTATPTTARTPTTDVSAGENGGFLLRLSVASPEDLTD
PRVAERLMQQLHRELHAHAPHFQVSLLRVRRG

1446/6881
FIGURE 1343

GGGCCGCACTGGACCAGGGATGAGAGTGGGTGCCCGGGACTCGCCTATACTGCCTGGGGGTGCAGCCCGCACTCC
TCACTATAGTCAAATCGACTATGCGTGCTTTCCAGGGGGCCCGGAGAGGACTCCATGGGGAGGGATGCTTACCTT
GTGGGCTTTGGAATATAAGCCCTTTCATCTTCTCCGCTGGTCCCTACACAGTTGGCAAGGCAGGTATTGTGACCC
TGTTTTCTCAGGTGAGGACATGGAGGCTGGGAGGGGTCTAGAGACTGGCCTGGCTAGTAGGAGGCTGAGTCAGGA
TTTGAACCAGCAGATCATCTGACCCAGAGCCGGTTCGTGGCGGCACAGCGGGAGCTGCAACCGAGGCTCTTGAC
TCCTGCCTCGTCATTCCCTGAGGTCCACAGGACAACCAGCTGGGGACCTGGAGCCCCATCCTGACGTCTCGGGGA
GAGGTGCTAGGCCCCCTTTTGGGTCTATGAGCTACTTTTGGGCCAGTGGAGCCGGGTAAAGACCATCTCAAACCT
GTGCCAGGGGAGGTGAGACTCCAAGAGCGCCACCTTTGGGCTTCCAGCTGTGTGGGCTGCACCAAGAAGGCTCAG
AGAATTAGGGGGTTCGTATTTGATCCTTTTCCCTTCCAAGACTGGGATTACCAGATAAAACACAGGGCATCCAGTT
ACATTTGAATTTGAGTAACAATTTTTTTTTTAAAGTGAAGTACGTAGCCAATATTGCATGAGAAATACTCATGCT
AAAAAGTTATTGCTCATTTATCTGAAGTGCAGTTCAAATTTAACCAGGTACCCTGTATTTTTATTGTCTAAATC
TAGAAACCTCTCCAAGAGACTCCTTGGCCCACTCACAGGGAGAGCCGATCTCCCTCTAGACAGGGGAGGCCCC
CTTCTCAGGCCAGAAAAGATCTTGTAGTAACTACTCAAGAGGCTGAGGCAGGAGGATCGCTTGAGCCAGGAA
TTCAAGACCTGCCTGGGCAACAGAGCAAGACCTGTCTCTAGGGAAGATATCCTACCGTAGCCTCCCTCGGGGAC
TCCCATTCCTCCACCTCAGGGCCAGTCAAGGGAACAGGCCTCTGCTCTGGGCAGAAGTGCCGGCAGCCGCTCTC
TGAAAAGCTAGGTGTTGCCTCAGGGGCTCCCGGTGTCTGTGGAAAATGCCTGGCCACGGTTTCCATGGTTCCCA
GGCTCCAACCTGCAGTTCTCGGCCCTCATTAGGAGGGGCTCGGCAGGGTGGGGGTGCCGTCTTTCCCTTGC
CGGAGCCCAAGGACTCTGCCGGCTCCCTCGCTTTGGCAGCAGCACTGCCACCCGTCTCTGAGGTTCCCCG
CCTCAATCCACCCAGCTACCCGAAAGGCACAATCATAGGCCTTTCTCGTCTTTTAAAGGGTTTTTACTTCCATG
GGGAACATATGTGTTGGATGAGAAAAGTACCCGGGAAGGCGACAGAGGTTGAGAAAGCTCTGCGAGTCTGGACG
CTGGTCTGCCTTCTTGGCTCACCTTGAAGGTGAGCGCTGGCCCCACACATCCCTCTTAAAGACGAGGCCGAT
AGCCAGCAGATCCTGGGGCTTGCTGGCCCCAAGTGAGTTGTGAGGGTTTCAAGAGGACGCCAGTCATGCAACCCC
AGCTCCATGGCTGCCACACAGGCTGGGCTTCCAGGACTGCCCTCTTGTGTTGCTTATGTAGATGAAAAATG
AGGTAACGGCACTCCCTTGCCCCACCTCTCCAGAAAGTGCCAGGGGTGAAATGCAATAGCTTGTGTGAAGTC
CACTGGAACCCAGGCTCACCAAGTCAGTCTTAACCAACACAGGCCCCAGCACC CGCAGAGCACATGCGATGA
CAACGGACGACACAGAAGTGCCCGCTATGACTCTAGCACCGGGCCACGCCGCTCTGGAACCTCAAACGCTGAGCG
CTGAGACCTCTTCTAGGGCTCAACCCAGCCGGCCCCATTCAGAAAGCAGAGACCAGGGGAGCCAAAGAGAATTT
CCCCTGCAAGAGAGACCAGGAGTTTCAAAAAACATCTCCCAACTTCATGGTGCTGATCGCCACCTCCGTGGAGA
CATCAGCCGCCAGTGGCAGCCCCGAGGAGCTGGAATGACCACAGTTTCAGACCATCACAGGCAGTGATCCCCGAGG
AAGCCATCTTTGACACCTTTTGACCGATGACAGCTCTGAAGAGGCAAAGACACTCACAATGGACATATTGACAT
TGGCTCACACCTCCACAGAAGCTAAGGGCCTGTCTCAGAGAGCAGTGCCCTCTTCCGACGGCCCCCATCCAGTCA
TCACCCGTCACGGGCTCAGAGAGCAGGCCTCTTCCGACGGCCCCCATCCAGTCATCACCCCGTCACGGGCTCAGAGAGCAGCGCTCTT
CCGACGGCCCCCATCCAGTCATCACCCCGTCACGGGCTCAGAGAGCAGTGCCCTCTTCCGACGGCCCCCATCCAG
TCATCACCCCGTCACGGGCTCAGAGAGCAGCGCTCTTCCGACGGCCCCCATCCAGTCATCACCCCTCATGGT
CCCCGGGATCTGATGTCACTCTCTCGCTGAAGCCCTGGTGACTGTCAAAACATCGAGGTTATTAATTGCAGC
ATCACAGAAATAGAAACAACAACCTTCCAGCATCCTGGGGCTCAGACATAGATCTCATCCCCACGGAAGGGGTG
AAGGCCTCGTCCACCTCCGATCCACAGCTCTGCCTGACTCCACTGAAGCAAACACACATCACTGAGGTACA
GCCTCTGCCGAGACCCTGTCCACAGCCGGCACCAAGAGTCAGCTGCACCTCATGCCACGGTTGGGACCCCACTC
CCCACTAACAGCGCCACAGAAAGAGAAGTGACAGCACCCGGGGCCACGACCCTCAGTGGAGCTCTGGTCACAGTT
AGCAGGAATCCCTGGAAGAAACCTCAGCCCTCTCTGTTGAGACACCAAGTTACGTCAAAGTCTCAGGAGCAGCT
CCGGTCTCCATAGAGGCTGGGTGAGCAGTGGGCAAAACAACCTTCTTGTGGGAGCTCTGCTTCTCTACAGC
CCCTCGGAAGCCGCCCTCAAGAACTTACCCCTTCAAGACACCGACCATGGACATCGCAACCAAGGGGCCCTTC
CCCACAGCAGGGACCTCTTCTTCTGTCCCTCCGACTACAACCAACAGCAGCCGAGGGACGAACAGCACCTTA
GCCAAGATACAACCTCAGCGAAGACCAGATGAAGCCCCATCTCTACTAAAAATACAAAAATTAGCTGGGTGTG
GTGGCATGCACCTGTAGTCCAGCTACTCGGGAGGTTGAGGCAGGAGAATCACTTGCAACAGGGAGGTGGAGGTT
GCAGTGAGCCGAGATTGCGCCACTGCACTCCAGCCTGGGCAACAGAGCAAG

1447/6881
FIGURE 1344

CTTTTGAGCAGGAGTCCGGGCCCTCGTGTACCGCTCTGAAGTCAAGGAGAGGCTGGGAGGCGGCAGAATGCAGC
CAGAGGAGGGCACAGGCTGGCTGCTGGAGCTGCTGTCCGAGGTGCAGCTGCAACAGTACTTCCTGCGGCTCCGAG
ATGACCTCAACGTCAACCGCCTGTCCCACTTTGAGTACGTCAAGAATGAGGACCTGGAGAAGATCGGCATGGGTC
GGCCTGGCCAGCGGCGGCTGTGGGAGGCTGTGAAGAGGAGGAAGGCCTTGTGCAAACGCAAGTCGTGGATGAGTA
AGGTGTTTCACTGGAAAGCGACTGGAGGCTGAGTTCCACCTCATCACTCTCAGAGCACCTTCCGGAAGACCTCGC
CCGCCCCCTGGGGGCCAGCAGGGGAGGGGCCCCCTGCAGAGCCTCACCTGCCTCATTGGGGAGAAGGACCTGCGCC
TCCTGGAGAAGCTGGGTGATGGTTCCTTTGGCGTGGTGCGCAGGGGCGAGTGGGACGCGCCCTCAGGGAAGACGG
TGAGTGTGGCTGTGAAGTGCCTGAAGCCCGATGTCTGAGCCAGCCAGAAGCCATGGACGACTTCATCCGGGAGG
TCAATGCCATGCACTCGCTCGACCACCGAAACCTCATCCGCCTCTACGGGGTGGTGCTACGCCGCCCATGAAGA
TGGCATCAGTTTCCCAAATTGCCTCGAGGGAGAGGCTGAGAACTGCAGGACTCCTAGAGGTCCCCAGACAGCA
GGCCAGGAAGGTGACAGAGCTGGCACCTCTGGGATCGTTGTTGGACCGGTACGTAAGCACCAGGGCCACTTCCT
CCTGGGGACTCTGAGCCGCTACGCTGTGCAGGTGGCTGAGGGCATGGGCTACCTGGAGTCCAAGCGCTTTATTCA
CCGTGACCTGGCTGCCCCGAATCTGCTGTTGGCTACCCGCGACCTGGTCAAGATCGGGGACTTTGGGCTGATGCG
AGCACTACCTCAGAATGACGACCATTACGTATGCAGGAACATCGCAAGGTGCCCTTCGCCTGGTGTGCCCCGA
GAGCCTGAAGACACGCACCTTCTCCCATGCCAGCGAC

1448/6881
FIGURE 1345

TGTCCTTCAGTGAAATGATACCGGTCCCCACTGCCAGCTCACCTCCCGGGGCTGCAGGAGGCACCGGAGATAATG
GCTGTAGAGGGTCTTGTAACCTGAACATTGCTTGCAAACATAAGGAATTCTAGTTACTGGGAGGAAGCACAGGGC
AGAGGCCAGAAAGAGGCCCTCAGATTGAGGCACCCTAGCCCAGACGGATAAGGATCCACCAGCTCTGGGGGCGTG
AGACCCAAGCTGGCAAGAATCTGCAATCTGGAGCCAAGGCTGTGGGTGCCTCAGTGGAGGCCGAGTCAGACCGAC
GTGGCCAGCTTTGACCCTCATGGCCTCCTTTCTTCTGTCCCTTGACCTTCGGCTCCTCCCTGTCCACCCTGGCCT
CCGAGTCTCCTCCACTTTTCTTCCGTCTCAGCCCTCAGCTCTAGGCGCCCTCCAGAGACCCAGCTGTCTTCCC
AGGCCCCCTTCCCAGCAAGGACTAGCTTTCATCTGAACACACACACTCACGGTTCAACCTCAGACTAAAATTAT
CCTCTCCCCTGGGCAGGATGAAGGGCAGCCGACTCCCTGGTGAGGGTGGAGACAGACAGCACCAAAATGGTCAGGC
CAGAGAAGGGGCCAGGGCTAAAAATGGACAAGGAGGTGTCTGTGGAGGGCCCTGCGGCTCCATCGATGCGGGT
AGGGCTGGAGTCTGCGGGGTGGCGGGTGACAGGAAGGGAGGGTGGGGCAGGACTGGGAGGAGACTCCGACCTTGGC
TGGGCGGTGCCCTCCTCTCCACACAGCTGGGTGTGGGGCCGCTCAGCCACAGGCTGCATGCCTGTGCGTCTCTT
TCTGGCACCTCCTTGAGGCCAGCATCAGGCTTTGGGTTTCATGTTTGGGGGTGTGCCCTGGACGGAGTGTGGGCC
TCCAGCCAGGCTGCCCCACTGACAGTTTGGCAAACCCAGGACCTATCTGGAAGCCGAAGCCGGGGATCACCAGGT
GGACCCAGCGGGGTGGGACTGAGTGACTGACCTGGGGTGTGGATTCCATCTGGCCCCCGGCTGCCTTCAAACA
GGTGTTCAAGTGGAAAGCGACTGGAGGCTGAGTTCCACCTCATCACTCTCAGAGCACCTCCGGAAGACCTCGCC
CGCCCCCTGGGGGCCAGCAGGGGAGGGGCCCTGCAGAGCCTCACCTGCCTCATTGGGGAGAAGGACCTGCGCCT
CCTGGAGAAGCTGGGTGATGGTTCCCTTTGGCGTGGTGCGCAGGGGCGAGTGGGACGCGCCCTCAGGGAAGACGGT
GAGCTCTCTGTGTCCTGCCAGCGCAGCAGAGGCATGGGACCCGGGGCTGGTAGTGGCTCTTCTGCCCCCAACCAG
GGTGTGGATGGGACTGGGGATGCGTCACAGTGTGGCTCATCCAGAGTCCGTGCTCAGGATTTTGGGGTTTTAT
TTATTTATTTATTTTGGAGATGGAGTCTCGCTCTGTGCGCCAGGCTGGAGTGCAGTAGGCACGATCTCGGCTTCC
TGCAACCTCCACTTTCCGGGTTCAGCAATCCTCCTGCCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCATGCAC
CACCACACICAGTTAATTTTGTATTTTAGTAGAGACGGGGTTTACCATGTTGGCCAGGCTGGTCTCGAACTC
CTGACCTCAGATGATCTGCCCCACTTTAGCCTCCCAAAGTGCTTGGATTACAGGTGTGAGCCACCACGTCCAGCCC
ATGCTCAGGTTTAACTAAGCACATTTATTATTTCAACTATAAAAAATAATTTATTATAAAAGTTTGGAAAGTATTT
G

1449/6881
FIGURE 1346

MRVRAGVCGVAGAGREGGAGLGGDSDLGWAVPSLSTQLGVGPLSHRLHACRSLSGTLLEASIRLWVHVWGCALDG
VWASSQAAPLTVWQNQDLSGSRSRGSPGGPSGVGLSD

1450/6881
FIGURE 1347

CATCCTCCCAGAGAAGGGGCCCCGAATCGCCGAAGGGCACTGCTTCGCCGATTTAAAAACAAAGCAAAAAGCCCC
GCATCTGCATCAGGAAGGCGCCTCTGCCTACTCTGGGAGAGAGAAGGGCACCCCTCCCCCTTGCTACGTAGTCGT
CTGCGGAGGCACAACCGTGGAACGGGAGCCGCCACCACCACCACCGCTCAAACCTCTCGGCACTGGCTGGGGTA
CAGGGAGCGGCTGCGAGCGAATGGGATAAGCGAGCCTCCAGTTCCCCGTCTTCCAGAGCAAGTGGCTTCAGTGAT
ATCCAAGCGCCCTTCCAGCACCCATTCCCTGCCTCGCCAGCAGGCACCGGGGCCCCACTTGGCGTTTGGCGATT
CAGCTGAATGGGAGGCGACACAATGAGACAAGAGCAAACCGTTTTCTCAGCGTTCTTGCCAGGGCCTTCCCGTCT
CGCGGCCCCGGCCTCCCTCACCCGGAAGTGCTGGTCCCGGTACTGGCTCAGCTCCACGTAGGAGTCGCTGCGCAGC
GCCTTCAGGAGGCCACCCGACATAGTGCAGAGAAGCGGACCACAATGCGGCGACTCCCGGCACGAGGCTGCGTCC
GCGATGGCGGAAGCGGAAACGCGCGGAGGCGAGCATCTCATTGGACCCAATCCGAGGGCGGCAGTGTCTCATCA
AGCTGCGCGGGGGCATAGACGTCCGGGTCCGGGCGCCGCGGGGCGGAAGACGAGGGCGGCGAGGTCCGGTTCCGGG
CGCTTGAGAGAAGATGGTGTCTGCGGCGGCTGCTGGCCGCCCTGCTGCACAGCCCGCAGCTGGTGGAACGTCTGTCA
GAGTCGCGGCCCTATCCGACGTGCGGCGCAGCTCACGGCCTTCGCACTGCTGCAGGGCCAGCTGCGGGGCCAGGAC
GCGGCCCCGCCCTGCGAGACCTCGCGGCTGGGCCCCGTGGGCTCCCTGTGCCGCCGCGCTGAGCGATTTAGAGAC
GCCTTCACCCAGGAGCTACGCCCGGCCCTCCGAGGCCGCTCGGGGCCACCACCAGGTAGCCAGAGGGGCCCTGGC
GCAAACATTTAATCCTGGGCTGTGCGGGGCCGAGGCTGCTTGCTTTTCCTTCCGGGCTCTACAGTGGCATCAATG
TGGAGGGGTCAATCCGGGCACTGCGCGCGGCTTCGAATCCCGACTGGGATTGTTGGCCTGCAGACATCCCACGCA
TAAGAGCCTAGGCCAGACCGCCGCTCCGTTGAAGTCTTGTGATTGGACAAGACACAGTGTGGAGAAAGACCCCT
AAGCCTAACAGAGATGAAGGTAGGCTGGGTCCAGACACGGCACCTACGGAGAGCCACGGACCGAAGCCAGAGAGC
CTTTCCTCTGCAAGTGGGACTGAACTCTTGACAGATGCTGCTCAATCTGACTGGTATAGCAGGACAGTTAATTC
CAGGGACGATATGGATGAAAAGACAACCCTACAGCTGCCAAATTCCTTTGATTAAATGTGTGAGCTGGTTGATAG
GCATGAGTGTGATACTTCTCAGGCAAGATGTGTTAAGAATACCGGGGACTGTAGGCCTATGGTAATAATAAACAC
GTATTTTATGAAATGA

1451/6881
FIGURE 1348

CCGGCTGCTGCGGACCTCCTCGGACCCGGACCCAGCCCCAGCCCGGCCCCAGCCAGCCCCGACGGCGCCATGCGG
GGTCCGAGCGGGGCTCTGTGGCTGCTCCTGGCTCTGCGCACCGTGCTCGGTGGCATGGAGGTGCGGTGGTGCGCC
ACCTCGGACCCAGAGCAGCACAAGTGCGGCAACATGAGCGAGGCCCTTCGGGAAGCGGGCATCCAGCCCTCCCTC
CTCTGCGTCCGGGGCACCTCCGCCGACCACTGCGTCCAGCTCATCGCGGCCCCAGGAGGCTGACGCCATCACTCTG
GATGGAGGAGCCATCTATGAGGCGGGAAAGGAGCACGGCCTGAAGCCGGTGGTGGGCGAAGTGTACGATCAAGAG
GTCGGTACCTCCTATTACGCCGTGGCTGTGGTCAGGAGGAGCTCCCATGTGACCATTGACACCCTGAAAGGCGTG
AAGTCCTGCCACACGGGCATCAATCGCACAGTGGGCTGGAACGTGCCCCGTGGGCTACCTGGTGGAGAGCGGCCGC
CTCTCGGTGATGGGCTGCGATGTACTCAAAGCTGTGACGCACTATTTTGGGGGCAGCTGCGTCCCGGGGGCAGGA
GAGACCAGTTACTCTGAGTCCCTCTGTGCGCTCTGACAGGGGTGACAGCTCTGGGGAAGGGGTGTGTGACAAGAGC
CCCCTGGAGAGATACTACGACTACAGCGGGGCCCTTCGGTGCCTGGCGGAAGGGGCAGGGGACGTGGCTTTTGTG
AAGCACAGCACGGTACTGGAGAACACGGATGAAAGTCCATCACGAAGGCAAACATGGACCAGATCTGAGGAGGAA
GAAGGCGAGTGCCCTGCACACGAGGAAGCACGTAGGACGATGCGCTCTAGTGCTGGGCAAGCCTGGAATGGGCT
CCCGTTACAGGCCCCAGGACGAGTCTGACAAAGGAGAATTTGGAAAACGGGCAAAGAGTAGGGATATGTTGGGT
TAAGAATCAGCTCTTTCAAACTGGGGTTTTTTTTTGGGATGGGGGTCTCACCATGTTGCCAGGCTGGTCTCAA
CCCCAGCCTCAACTGATCCTCGCATCTCAGCCTCCTGAGTAGCTGGGATGACAGGCGTGACCTGGCAGCTTTT
TCAAAGTGTGATGGTAATCTGAGGCAATCTAAGGGAGTCATTTTTTAAGTGACTTTATACAGAAAGATTGGTAA
GAGCCAAGGGGTAGAAGTGGCATAAATGTCTAAAGCAGGGAAGTGACAGGACTTTCATTGTTCTTGGCTGAGGAG
AAGCGGGAGTGGCTGATGGAAGCACCTAAATGATGCCTTTGICTGTGGGAAGGCAAATGATGCCCCAGAGCTCTA
ACCAAAGTTTTGTCAGCCGCCGAAAAACAGGAAAGTTGGGAAGCGGGGGTAGGACTACACTGAATCATTAAACAGT
GCTGTAAACTACCATGTGGCCATTAACAATGACCTTTAGGGAGTTTCCTAAACGATCACTCTGGTGCGGGTGTT
TGGTTTTGTTTTAAATAGCTTTGCAGTGAAAGCTTTCATGACCATACAAATTATCTTTTTCTTCCTATTTCCT
TGTAGAGTTTTTTTTCTCCTTGTCTTAAGGTCATAAAATATTGTTATGTGGGAAAAAAAAAAAAAAAAAAAAA
A

1452/6881
FIGURE 1349

MRGPS GALWLLLALRTVLGGMEVRWCATSDPEQHKCGNMSEAFREAGIQPSLLCVRGTSADHCVQLIAAQEADAI
TLDGGAIYEAGKEHGLKPVVGEVYDQEVGTSYYAVAVRRSSHVTIDTLKGVKSCHTGINRTVGWNVPVGYLVES
GRLSVMGCDVLKAVSDYFGGSCVPGAGETSYSESLCRLCRGDSSGEGVCDKSPLERYDYSGAFRCLAEGAGDVA
FVKHSTVLENTDESPSRRQITWRSEEEEGECPAHEEARRTMRSSAGQAWKWAPVHRPQDESDKGEFGKRAKSRDM
LG

1453/6881
FIGURE 1350

GGGCGCCGCGGGGCGGAAGACGAGGGCGGGCAGGTCGGGTTCGGGGCGCTTGGAGAAGATGGTGCTGCGGCGGGCT
GCTGGCCGCCCTGCTGCACAGCCCGCAGCTGGTGGAACGTCTGTCTCAGAGTCGCGGCCTATCCGACGTGCGGGCGCA
GCTCACGGCCTTCGCACTGCTGCAGGCCCAGCTGCGGGGCCAGGACGCGGCCCGCCGCCTGCAGGACCTCGCGGC
TGGGCCCGTGGGCTCCCTGTGCCGCCGCGCTGAGCGATTTAGAGACGCCTTCACCCAGGAGCTACGCCGCGGCCT
CCGAGGCCGCTCGGGGCCACCACCAGGTAGCCAGAGGGGCCCTGGCGCAAACATTTAATCCTGGGCTGTGCGGGG
CCGAGGCCGCTTGCTTTTCCTTCGGGGCTCTACAGTGGCATCAATGTGGAGGGGTCATTCCGGGCACTGCGCGCG
GCTTCGAATCCCGACTGGGATTGTTGGCCTGCAGACATCCACGCATAAGAGCCTAGGCCAGACCGCCCGCTCCG
TTGAAGTCTTGTGATTGGACAAGACACAGTGTGGAGACAGCCCTAAGCCTAACAGAGATGAAGGTAGGCTGGGTC
CAGACACGGCACCTACGGAGAGCCACGGACCGAAGCCAGAGAGCCTTTCTCTGCAAGTGGGACTGAAACTCTTG
ACAGATGCTGCTCAATCTGACTGGTATAGCAGGACAGTTAATTCCAGGGACGATATGGATGAAAAGACAACCCTA
CAGCTGCCAAATTCCTTTGATTAAATGTGTGAGCTGGTTGATAGGCATGAGTGTGATACTTCTCAGGCAAGATGT
GTTAAGAATACCGGGGACTGTAGGCCTATGGTAATAATAAACACGTATTTTATGAAATGA

1454/6881
FIGURE 1351

MVLRRLLAALLHSPQLVERLSESRPIRRAAQLTAFALLQAQLRGQDAARRLQDLAAGPVGSLCRRRAERFRDAFTQ
ELRRGLRGRSGPPPGSQRGPGANI

1455/6881
FIGURE 1352

ATGCCTGTCTTCATCTTGAAAGAAAAGCTCCAGGTCCCTTCTCCAGCCACCCAGCCCCAAGATGGTGATGCTGCT
GCTGCTGCTTTCCGCACTGGCTGGCCTCTTCGGTGCGGCAGAGGGACAAGCATTTTCATCTTGGGAAGTGCCCCAA
TCCTCCGGTGCAGGAGAATTTTGACGTGAATAAGTATCTCGGAAGATGGTACGAAATTGAGAAGATCCCAACAAC
CTTTGAGAATGGACGCTGCATCCAGGCCAACTACTCACTAATGGAAAACGGAAAGATCAAAGTGTTAAACCAGGA
GTTGAGAGCTGATGGAAGTGTGAATCAAATCGAAGGTGAAGCCACCCAGTTAACCTCACAGAGCCTGCCAAGCT
GGAAGTTAAGTTTTCCTGGTTTATGCCATCGGCACCGTACTGGATCCTGGCCACCGACTATGAGAAGTATGCCCT
CGTGATTCCCTGTACCTGCATCATCCAACTTTTTCACGTGGATTTTGCTTGGATCTTGGCAAGAAACCCTAATCT
CCCTCCAGAAACAGTGGACTCTCTAAAAAATATCCTGACTTCTAATAACATTGATGTCAAGAAAATGACGGTCAC
AGACCAGGTGAACTGCCCCAAGCTCTCGTTAACCAGGTTCTACAGGGAGGCTGCACCCACTCCATGTTACTTCTGC
TTCGCTTTCCCTACCCCAACCCCCCCCCATAAAGACAAACCAATCAACCACGACAAAGGAAGTTGACCTAAACAT
GTAACCATGCCCTACCCTGTTACCTTGCTAGCTGCAAAATAAACTTGTTGCTGACCTGC

1456/6881
FIGURE 1353

MVMLLLLLSALAGLFGAEGQAFHLGKCPNPPVQENFDVNKYLGRWYEIEKIPTTFENGRCIQANYSLMENGKIK
VLNQELRADGTVNQIEGEATPVNLTEPAKLEVKFSWFMPSPAPYWILATDYENYALVYSCTCIIQLFHVDFAWILA
RNPNLPPETVDSLKNILTSNNIDVKMTVTDQVNCPKLS

1457/6881
FIGURE 1354

GC GCGAGTGGGAGGTGGCAGGCCTGCGACTCCGGCCTTGTCGCGCCCGCTCTCGGCGCGACGCTCTCCAGCCATG

AACCGGTTTGGTACCCGGTTGGTGGGAGCCACGGCGACTTCTTCGCCGCCGCCGAAGGCCCGCAGCAATGAAAAAC
CTCGACAAAATAGATATGTCTTTGGATGATATCATCAAGTTGAATCGAAAGGAAGGGAAGAAGCAGAATTTTCCA
AGACTAAATAGAAGACTCCTCCAGCAAAGTGGTGGCCAGCAATTCAGGATGAGAGTGCGATGGGGAATCCAACAG
AATTCTGGTTTTGGTAAGACTAGTCTGAATCATAGAGGAAGAGTAATGCCCTGGAAAGAGACGTCCTAATGGAGTT
ATCACTGGCCTTGCAGCTAGGAAAACGACTGGAATTCGAAAAGGAATTAGTCCTATGAATCGTCCACCTCTAAGT
GACAAGAATATAGAACAATATTTTCCAGTGTTAAAAAGGAAGGCAAACCTTCTGAGACAAAATGAAGGGCAGAGG
AAACCAGTAGCAGTTCTCAAGAGACCTAGCCAGCTAAGCAGAAAAATAACATTCAGCTAATTTTACCAGGAGT
GGAAATAAATTAATCATCAGAAAGATACTCGTCAGGCAACTTTTCTTTTCAGAAGAGGCCCTGAAGGTGCAGGCC
CAGTTGAATACAGAACAACTGCTAGACGATGTAGTAGCAAAGAGAAGTTCGTCATGGCGGACTTCCACCACAAAT
GGAGGGATTTTACTGTATCTATTGACAATCCTGGAGCAGTGCAATGCCAGTAACTCAGAAACCACGATTAACT
CGTACTGCTGTACCTTCATTTTAAACAAAGCGGGAGCAAAGTGACGTCAAGAAAGTTCTTAAAGTGTTCCTCTG
CAGTTTGACATAAACAGTGTGCGAAAACAGACAGGGATGACGTTGAATGAGCGGTTTGGGATCCTGAAGGAACAA
AGAGCCACTCTCACATACAACAAAGGGGGAAGCCGCTTTGTCACCGTGGGATAGGTTCCCATGTCAAAGGAACCTTT
TGAGTGATGACTCTGAGAAGTTGAATTGCTTGAAGAGTTTCATCAGGAAATTCAGAAACTTTACTTCAAAAATAT
TCACAAGGCTAAATAACTCTTATTTTATTTTGAAGGTTTTTTTTTAAAAAAGGATATAAAATAATG
CCCTGAAAGAATAATAGGGATTATACCTGTCTGTTCTTAAAGATTTTCATGGTTGGCTCAGACAGAACATCATCT
GTTTGACTTCTTTGGTTCTCATGCAGCAGAAAGGAAGACAGAAAGGATAGAAATGATTATTTTATGATAGCGGT
ATTGAGGATCTCATCACCTTTGCCGTGTTTTAGACTTTGTCATGGTAAATCCTGGTCTTCATAAACATGAGTAG
GTCCCTTGGTTGCTGTCACTTGCCCTTTAATAGTGTTGATGTAGTCAGTGCCGTGCTTTTCTTCATTAGAGAC
ACAGAACAAATGTATTAGAATTTCCAGCTGTGGGTTTGAAGACTTAGGGGGACATCCAGAACGTTGCTTCTCTTTC
AGACGGTGTAAGTCCCCTGGAATTACACAGCTTTAGTGCTGAGCTTTTAAACAGGAAATGTGGCCCTAGGTATTA
GTCTTAGTTTTAAATGTGGTGTTTAGAGACTGTAAATGCATATTCACAAAGTTATCTGATAGGGCCTTGGAGGA
GAAGGTCCAGTTTTAAAAAATGACAGTTTGTGTTTAAATAATGAAGGCATGAGAGGAAGTAAGTAGCAAGTTGAA
GGACAGGTAGTTGAGATGAAACACTTCAAAACCCTGGTTATAGATGTACTGTTGGATGTAGCATAGTCTTGAGT
CTAGCGTCCACAAAGAATTATTCAAATGATATTTAGAAGAATTATAACTATTACATTGAATGGAGTCCCTTGGAT
ATTTTGATAGTAAATTAATAGCCATAAAGTCCCTAGACTTCTTATTTGAAGTTAAAAATTTCTTATTGAAAAGTT
GAAATTTATGAGCTTTGAAGATTGCTAAATTAATAATTTATAGCTCCAAAAACAAAAATATACTTGTATATGTC
ACAGAGAAAAAATGCAAAATTTATAATAGAGTTACATTAACCTTGTTGTTTACCTTTCACTGATTTCCTTATAT
GGTATAAATTAAGTTTACGGCATTATGCGGAGAAAAGGCCCTCCACCGACCCGCCACCTGCCACCTCTGACG
GAGTGGGAGAAGTTAGTCTGTGCTAAGATAGTACTGAGTCCCCAGATGTTGTATACTGTAAATTACAGTATAATG
CCAAATGCAGCAAAATCTCCAGCTGTACGTTACAAGTTTGGTCAATTTGAAGCTTGACATTTTAGTTTGCCATT
ATGTTAAAAACATCTAAATAGGTGTTAGTTTCTCAGGAGTAGATTGTTAGTGTGACTTTTCTGTAAAGCAGAC
ATCGTTCCTTGGCCTGCCCTGCATTGTATATACTAGATTTCAATGTTGTCTCTCATGCTTCTTGAGTTGCTTCATGGT
TTATGCTCGCCATGGAAAGCTATCAGTAACAGTTTTCATGCTTATACCAAGAATTAAATCTGATCTTTAATATCT
GATATTTTCTTGGTACTCGTACTGATAAGGGATTATTGGAAGTCAGTCACAGAATTTGGAAATAAATTCTAGTCT
CTCCTTAGCTATTTGATGCTTTTCAATAGCCAAGAAGTCAATGCAAAACATTTTTCAGGATGAATGCCTGT
ATTTGGTCTAGGAACAGTACATTTTAGTCTGATTAGAATTACTGGTAGCTTATTTTAAAGCAAGGAAAAGCAGC
TGAGCTCAAGTTTGTGCTTTTAGAATGTTTGTGAAAATATGGTATAAAGGTGTTTTCATTTTCTGTCTTAC
CTATTATTGTATAGAGCTATTCAIGCCATTTTGGGAAAACCTTAAAAATTGCCCCAAATACTGACATTGAGTG
CATTAATAACAAATTAATCTTTGATACATTAACTTTTATTCTTCATGCATCTGTAATTTAATTTAAGTATAAT
GTTTTGCCCTTTGGTACAATAAATAAATCTTTGGTGGTCACATATTGTATATAAAACAAACAATATGCTTTGT
TGAAGGAAAATTTCTTTATTGGAATGTGGTTGTAATCCTGTTTCAAGTTCTTAAAGTTTCGGTTTTTTTTTAAAC
AGGATGCAACTTAACTTTTCTTTGCATCAAGGTATATGCAAAACATTGGTGCCGTGCATCACCAAATGAAAGTT
TGTATTTAACGAGGAGTGCTTTTACACTGTACTTTTTGGTGTTTTTTGGAAAAGTTACATTTAGATCTATTCTGA
AGCTGTTCAATTTTAAACAAATAAATGTTACAGGTTTACATGATTTATTCTCAGCTCTAAAAAAGGAAAAA
AAA

1458/6881
FIGURE 1355

MNRFGTRLVGATATSSPPPKARSNENLDKIDMSLDDI IKLNRKEGKKQNFPRLNRRLLQQSGAQQFRMRVVRWGIQ
QNSGFGKTSLNHRGRVMPGKRRPNGVITGLAARKTTGIRKGISPMNRPPLSDKNIEQYFPVLKRKANLLRQNEGO
RKPVAVLKRPSQLSRKNNIPANFTRSGNKLNHQKDTRQATFLFRRGLKVQAQLNTEQLLDDVAKRTRQWRTSTT
NGGILTVSIDNPGAVQCPVTQKPRLTRTAVPSFLTKEQSDVKKVPKGVPLQFDINSVGKQTGMTLNERFGILKE
QRATLTYNKGGSRFVTVG

1459/6881
FIGURE 1356

AATCAAGAGGTTCCAATCTTCGTGTTCACTTTAAGAACACTCGTGGAAC TGCTCAGGCCACCAAGGGTATGCATA
TACGAAAAGCCACGAAGTATCTGAAAG ATGTCACTTTACAGAAACAGCGTGTACCATTCCGACGTTACAATGATG
GAGTTGGCAGGTGTGCGCAGGCCAAGCAGTGGGGCTGGACACAAGGTCGGTGGCCCAGAAAGAGTGCTGAATTCT
CTGGTCATTGAGCATATCCAAGTGAACAAAGCACCTGAGATGTGCCGCCGGACCTACAGAGCTCATGGTCGGATT
AACCATACATGAGCTCTCCCTGCCACATTGAGATGATCCTTATGGAAAAGGAACAGATTGTTCTAAACCAGAA
GAGGAGGTTGCCCAGAAGAAAAAGATATCCCAGAAGAACTGAAGAAACAAAACTTACGGCACGGGAG TAAATT
CAGCATTAAAATAAATGTAATTAAAAGG

1460/6881

FIGURE 1357

MSLYRNSAYHSDVTMVELASVRRPSSGAGHKVGGPKRVLNSLVIEYIQVNKAPKMLRRTYRAHGRINSYMSSPWH
IEMILTEKEQIVPKPEKEVAQKKKISQKKLKKQKL MARK

1461/6881

FIGURE 1358

TGTAGATTAGCTGTGAATATCTTGACTCCTTTAAGGTAATAAGGCTTTTGTTTGTTTTATCTTTCACAGCTAGA
AAATTATGGCATGCCGTTTAGCAGAACTGAAGATGGGAAGATTTATCAGCGTGCATTTGGTGGACAGAGCCTCAA
GTTTGAAAAGGGCAGGCAGGCCCATCGGTGCTGCTGTGTGGCTGATCGGACCGGCCACTCAATATTGCACACCTC
ATATGGGAGGTCTCTGAGATATGATACCAGCTGTTTTGTGGAGTATTTTGCCCTGGATCTCCTGATAGAGAACAG
GGAGTGCCGTGGTGTTCATTGCACTGTGCATAGAGGACGGGTCCATCCATCACATAAGAGCAAAGAACACTGTTGT
TGCCACAGGGTAGG

1462/6881
FIGURE 1359

TTTCCGTGCTACCTGCAGAGGGATCCATACGGCGTTGTTCTGGATTCCCGTCATAACTTAAAGGGAACTTTCAC
AAATGCCGGAGCCCTTGATGTCCTGCAGATGAAGGAGGAGGATGTCCTTAAGTTCCTTGACAGCAGGAACCCACTT
AGGTAGCACCAATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCGTCTATATCATAAA
TCTGAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTTGCTGCTGTTGTTGCCATTGAAAACCCGTCTCATGTCAG
TGTTAAATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGC
TGGCCGCTTCACTCCTGGAACCTTCACTAACGAGATCCAGGCAGCCTTCTGGGAGCCACGGCTTCTTGTGGTTAC
TGATCCAGGGCTGACCACCAGCCTCTCACAGAGGCATCTTAAGTTAACCTACCTACCATTGCTCTGTGTAACAC
AGATTCTCCTCTGTGCTGTGTGGACATTGCCATCCCATGCAACAGCAAGGGAGCTCACTCAGTGGGTTTGATGTG
GTGGATGCTGGCTTGGGAAGTTCTGCGCATGCATGGCACCATTTCCTGTAACACCCATGGGAGGTCTATGCCTGA
TCTCTACTTCTACAGAGATCCTGGAGAGATTGAAAAAGAAGAGTAGGCTGCTGCTGAAAAGGCAGTGACCGAGGA
GGAATTTACAGGGTGAATGGACTGCTCCAGCTCCTGAGTTCAGTCTACTCAGCCTGAGGTTGCAGACTGGTCTGA
AGGTGTGCAGGTGCCCTCTGTGCCTATTCAGCAGTTCCTACTGAAGACTGGAGCGCTCAGCCTGCCATAGAAGA
CTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGTGTAGGAGCAACCACTGAATGGTCTTAAGCTGTTCTTGC
ATAGGCTCTTAAGCAACATGGAAAAATGGTTAATGGAAAATAAACATCAGTTTCT

1463/6881

FIGURE 1360

GGGAAACTTTTACAATGTCCGGAGCCCTTGATGTCCTGCAGATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAG
CAGGAACCCACTTAGGTAGCACCAATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCG
TCTATATCATAAATCTGAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTTGTGCTGTTGTTGCCATTGAAAACC
CTGCTCATGTTCAGTGTTAAATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAG
CCACTCCAATTGCTGGCCGCTTCACTCCTGGAACCTTCACTAACGAGATCCAGGCATCTTAAGTTAACCTACCTA
CCATTGCTCTGTGTAAACACAGATTCTCCTCTGTGCTGTGTGGACATTGCCATCCCATGCAACAGCAAGGGAGCTC
ACTCAGTGGGTTTGATGTGGTGGATGCTGGCTTGGGAAGTTCTGCGCATGCATGGCACCATTTCCTCGTGAACACC
CATGGGAGGTCATGCCTGATCTCTACTTCTACAGAGATCCTGGAGAGATTGAAAAAGAAGAGTAGGCTGCTGCTG
A

1464/6881
FIGURE 1361

ATCTGCAGTGGAGCCGCCACCAAAATGCAGATTTTCGTGAAAACCCCTTACGGGGAAGACCATCACCCCTCGAGGTT
GAACCCTCGGATACGATAGAAAATGTAAAGGCCAAGATCCAGGGTAAGGAAGGAATTCCTCCTGATCAGCAGAGA
CTGATCTTTTGCTGGCAAGCAGCTGGAAGATGGACGTACTTTGTCTGACTACAATATTCAAAGGAGTCTACTCTT
CATCTTGTGTTGAGACTTCTGGTGGTGCTAAGAAAAGGAAGAAGAAGTCTTACACCACTCCCAAGAAGAATAAGC
ACAAGAGAAAGAAGGTTAAGCTGGCTGTCCTGAAATACTATAAGGTGGATGAGAATGGCAAATTAGTCGCCTTC
GTCGAGAGTGCCCTTCTGATGAATGTGGTGCTGGGGTGTTTATGGCAAGCCACTTTGACAGACATTATTGTGGCA
AATGTTGTCTGACTTACTGCTTCAACAAACCAGAAGACAAGTAACTGTATGAGTTAATAAAAGACATGAACTAAA
AAAAA

1465/6881
FIGURE 1362

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQGKEGIPPDQORLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLLV
VLRKGRSLTPLPRRISTRERLSWLS

1466/6881
FIGURE 1363

CCCCCCGCTAATGTTTTGGCCGCTTCAAGATGGCGGTGCAGGAGTCGGCGGCTCAGTTGTCCATGACCCTGAAG
GTCCAGGAGTACCCGACCCTCAAGGTGCCCTACGAGACGCTGAACAAACGCTTTCGCGCCGCTCAGAAGAACATT
GACCGGGAGACCAGCCACGTCACCATGGTGGTGGCCGAGCTGGAGAAGACGTTGAGCGGCTGCCCCGCCGTGGAC
TCCGTGGTCAGCCTGCTGGACGGCGTGGTGGAGAAGCTCAGCGTCCTCAAGAGGAAGGCGGTGGAATCCATCCAG
GCCGAGGACGAGAGCGCCAAGCTGTGCAAGCGCCGGATCGAGCACCTCAAAGAGCATAGCAGCGACCAGCCCGCG
GCGGCCAGCGTGTGGAAGAGGAAGCGCATGGATCGCATGATGGTGGAGCACCTGCTGCGTTGCGGCTACTACAAC
ACGGCTGTCAAGCTGGCGGCCAGAGCGGCATCGAGGACCTAGTGAATATTGAGATGTTTCTGACGGCCAAAGAG
GTGGAGGAGTCCCTGGAGAGGCGTGAGACGGCCACCTGCCCTGGCTGGTGGCCATGACAACAAGTCCCGGCTCCGG
AAGATGAAGAGCTGCCCTGGAGTTTCCGCTCAGAATCCAGGAGTTTATTGAACTCATCCGGCAGAATAAGAGACTG
GACGCTGTGAGACATGCAAGAAAGCACTTCAGCCAAGCAGAAGGGAGCCAGCTGGACGAGGTGCGCCAGGCCATG
GGCATGCTGGCCTTCCCGCCCGACACGCACATCTCCCGGTACAAGGACCTTCTGGACCCTGCACGGTGGCGGATG
CTGATCCAGCAGTTCCGGTACGACAACTACCGACTACACCAGCTGGGAAACAATTCTGTGTTTACCCTCACCCTG
CAGGCTGGCCTCTCAGCCATCAAGACACCACAGTGCTACAAGGAGGACGGCAGCTCCAAGAGCCCTGACTGCCCT
GTGTGCAGCCGCTCCCTGAACAAGCTGGCGCAGCCCTGCCCATGGCCCACTGTGCCAACTCCCGCCTGGTCTGC
AAGATTTCTGGCGACGTGATGAACGAGAACAATCCGCCCATGATGCTGCCCAACGGCTACGTCTACGGCTACAAT
TCTCTGCTTTCTATCCGTCAAGATGATAAAGTCGTGTGCCCGAGAACCAGGAAGTCTTCCACTTCTCACAAGCC
GAGAAGGTGTACATCATGTAGGCCCCACGTCGTGAAGCGCACGCCTCGGGGACGGGCTGCAGTGGGCGGGGAGGC
CACGCCTTCTCTCTGTCCCACGCTCCAGCCTGCCGCGGCGTTTCTGTTTCTTGGCACCAGATCCGTGAGCAAC
GATAAATACTCTTAGGAAGAGAGAAAATAAGGTTTCATAAGTTTGTACTTGAAAACATTTGGATTGGTAGGATTT
TGTAACACGTCAACCATTTGATGCTTCTGAAAAGTACTTTCAACTTGCGAAGGAAACTCTTCTTTAAAGACTGAC
CTAAACACCGAGGGAACTTAAGAACGTTTAAATATAGGAGTCCGTGATTTCCCTGTGTTTTCAGTTTCTTTCC
TTCTGTGAACGATGAGACTTGGAGAACGGGCTGGTCCTTCACCACTTCCTGTGGCCCTGGCCTGGCCGGGGAAG
GTGGCAGCGGCACCGGACTGACCTGCAGTGACCCGCGATGCCGCGCCACGAGGGACACTTATGGCTTCATTCGAG
AGCTGCTGCCAAAACGCCTGGCGCCGCCACCGTCGGGGGCTGGCTTCGAGGACGCCCGCCTGCCTCGCGGGTCTGT
GTCCGCGGGACTGTGTTCTGTACGTGCATAGTTTCGATATCACATCGCGGGGCTGTGTTCTGTAGCTGCGTCTGTTT
GATATCACACCCTCTGTGTGCCGCTTACTTCTGCTTCGAGAATGTATAACGTGGAAATCCACGGGACCAAAT
TCTGCAGAGGCCTTGCCGGATGGTTCCATAACTGTAGAGTCTAATTGCTATCCATTACAGAAATTAATCGTTCAG
TTGAAAGAAGTACTGATGACTTTTCAAAACAATGAACCACCGTAGCTGACAGAGAACCGTATCGTAGAGGTTTG
TAGTTAGTGCTTATTTTGCATGTTGATGTTGACTAGCTAATAAACTGTAAATGTAAACCATGCGAATAAAATGG
TTTTCTATTTCTC

1467/6881
FIGURE 1364

CCCCAGGTCCGGACAGGCCGAGATGACGCCGAGCCCCCTGTTGCTGCTCCTGCTGCCGCCGCTGCTGCTGGGGGC
CTTCCCGCCGCGCCGCCGCCGCCGAGGCCCCCCAAAGATGGCGGACAAGGTGGTCCCACGGCAGGTGGCCCCGGCT
GGGCCGCACTGTGCGGCTGCAGTGCCCACTGGAGGGGGACCCGCCCGCTGACCATGTGGACCAAGGATGGCCG
CACCATCCACAGCGGCTGGAGCCGCTTCCGCGTGCTGCCGACGGGGCTGAAGGTGAAGCAGGTGGAGCGGGAGGA
TGCCGCGGTGTACGTGTGCAAGGCCACCAACGGCTTCGGCAGCCTGAGCGTCAACTACACCCTCGTCGTGCTGGA
TGACATTAGCCCAGGGAAGGAGAGCCTGGGGCCCCGACAGCTCCTCTGGGGGTCAAGAGGACCCCGCCAGCCAGCA
GTGGGCACGACCGCGCTTCACACAGCCCTCCAAGATGAGGCGCCGGGTGATCGCACGGCCCGTGGGTAGCTCCGT
GCGGCTCAAGTGCGTGGCCAGCGGGCACCCCTCGGCCGACATCACGTGGATGAAGGACGACCAGGCCCTGACGCG
CCCAGAGGCCGCTGAGCCCAGGAAGAAGAAGTGGACACTGAGCCTGAAGAACCTGCGGCCGGAGGACAGCGGCAA
ATACACCTGCCGCGTGTCGAACCGCGCGGGCGCCATCAACGCCACCTACAAGGTGGATGTGATCCAGCGGACCCG
TTCCAAGCCCGTGCTCACAGGCACGACCCCGTGAACACGACGGTGGACTTCGGGGGGACACGTCTTCCAGTG
CAAGGTGCGCAGCGACGTGAAGCCGGTGATCCAGTGGCTGAAGCGCGTGAGTACGCGCCGAGGGCCGCCACAAC
TCCACCATCGATGTGGGCGGCCAGAAGTTTGTGGTGCTGCCACGGGTGACGTGTGGTCGCGGCCCGACGGCTCC
TACCTCAATAAGCTGCTCATCACCCGTGCCGCCAGGACGATGCGGGCATGTACATCTGCCTTGGCGCCAACACC
ATGGGTACAGCTTCCGACAGCGCCTTCCCTACCGTGCTGCCAGACCCAAAACCGCCAGGGCCACCTGTGGCCTCC
TCGTCTCGGCCACTAGCCTGCCGTGGCCCGTGGTCATCGGCATCCCAGCCGGCGCTGTCTTCATCTGGGCACC
CTGTCTCTGTGGCTTTGCCAGGCCAGAGAAGCCGTGCACCCCGCGCCTGCCCTCCCTGCTGGGCACCGC
CCGCCGGGGACGGCCCGGACCGCAGCGGAGACAAGGACCTTCCCTCGTTGGCCGCCCTCAGCGCTGGCCCTGGT
GTGGGGCTGTGTGAGGAGCATGGGTCTCCGGCAGCCCCCAGCACTTACTGGGCCAGGCCAGTTGCTGGCCCT
AAGTTGTACCCCAAACCTTACACAGACATCCACACACACACACACACTCTACACACACTCACACGTGGAG
GGCAAGGTCCACCAGCACATCCACTATCAGTGCTAGACGGCACCCTATCTGCAGTGGGCACGGGGGGCCGCCA
GACAGGCAGACTGGGAGGATGGAGGACGGAGCTGCAGACGAAGGCAGGGGACCCATGGCGAGGAGGAATGGCCAG
CACCCAGGCAGTCTGTGTGTGAGGCATAGCCCTGGACACACACACACAGACACACACTGCCTGGATGCATG
TATGCACACATGCGCGCACACGTGCTCCCTGAAGGCACAGTACGCACACACGCACATGCACAGATATGCCGC
CTGGGCACACAGATAAGCTGCCCAAATGCACGCACACGCAGAGACATGCCAGAACATAAAGGACATGCTGCC
TGAACATACACACGCACACCCATGCGCAGATGTGCTGCCTGGACACACACACACACAGGATATGCTGTCTGGAC
GCACACACGTGCAGATATGGTATCCGGACACACACGTGCACAGATATGCTGCCTGGACACACAGATAATGCTGCC
TTGACACACACATGCACGGATATTGCCTGGACACACACACACACACGTGTGCACAGATATGCTGTCTGGACACGC
ACACACATGCAGATATGCTGCCTGGACACACACTTCCAGACACACGTGCACAGGCGCAGATATGCTGCCTGGACA
CACGCAGATATGCTGTCTAGTCACACACACACGCAGACATGCTGTCCGGACACACACACGCATGCACAGATATGC
TGTCCGGACACACACACGCACGCAGATATGCTGCCTGGACACACACAGATAATGCTGCCTCAACACTCACACA
CGTGACAGATATTGCCTGGACACACACATGTGCACAGATATGCTGTCTGGACATGCACACACGTGCAGATATGCTG
TCCGGATACACACGCACGCACACATGCAGATATGCTGCCTGGGCACACACTTCCGGACACACATGCACACACAGG
TGCAGATATGCTGCCTGGACACACGCAGACTGACGTGCTTTTGGGAGGGTGTGCCGTGAAGCCTGCAGTACGTGT
GCCGTGAGGCTCATAGTTGATGAGGGACTTTCCCTGCTCCACCGTCACTCCCCAACTCTGCCCGCCTCTGTCCC
CGCCTCAGTCCCCGCTCCATCCCCGCTCTGTCCCCTGGCCTTGGCGGCTATTTTGGCACCTGCCTTGGGTGC
CCAGGAGTCCCCTACTGCTGTGGGCTGGGGTTGGGGGCACAGCAGCCCCAAGCCTGAGAGGCTGGAGCCCATGGC
TAGTGGCTCATCCCCACTGCATTCTCCCCCTGACACAGAGAAGGGGCCTTGGTATTTATATTTAAGAAATGAAGA
TAATATTAATAATGATGGAAGGAAGACTGGGTTCAGGGACTGTGGTCTCTCCTGGGGCCCGGACCCGCTGGT
CTTTCAGCCATGCTGATGACCACACCCCGTCCAGGCCAGACACCACCCCCACCCCACTGTGCTGGTGGCCCCAG
ATCTCTGTAATTTTATGTAGAGTTTGTAGCTGAAGCCCCGTATATTTAATTTATTTTGTAAACATGAAAGTGCAT
CCTTTCCTCC

1468/6881
FIGURE 1365

CCAAAGATGTTGACCAGGAAGATCAAGCTGTGGGACATCAACGCCCACATCACCTGCCGCCTGTGCAGCGGGTAC
CTCATCGACGCCACCACGGTGACCGAGTGTCTGCACACCTTCTGCAGGAGCTGCCTGGTGAAGTACCTGGAGGAG
AACAACACCTGCCCCACCTGCAGGATTGTGATCCACCAGAGCCACCCCTGCAGTACATCGGTCATGACAGAACC
ATGCAAGATATTGTTTACAAATTGGTACCAGGCCTCCAAGAAGCGGAAATGAGAAAGCAGAGGGAGTTCTATCAC
AAATTGGGCATGGAGGTGCCGGGAGACATCAAGGGGGAGACCTGCTCTGCAAAACAGCACTTAGATTCCCATCGG
AATGGTGAAACCAAAGCAGACGACAGTTCAAACAAAGAGGCCGCGGAGGAGAAGCCGGAGGAGGACAACGACTAC
CACCGCAGCGACGAGCAGGTGAGCATCTGCCTGGAGTGTAACAGCAGCAAACTGCGCGGGCTGAAGCGGAAGTGG
ATCCGCTGCTCAGCCCAGGCGACCGTCTTGCACTCTGAAGAAGTTCATCGCCAAAAAATCAACCTTTCATCCTTT
AACGAGCTGGACATTTTATGCAACGAGGAGATCCTGGGCAAGGACCACACACTCAAGTTCGTGGTTGTCACTAGG
TGGAGATTCAAGAAGGCGCCGCTCCTGCTGCACTACAGACCCAAGATGGACTTGCTGTGAATGGTGCCACACAGC
GCCCACAGACTGGGCCCTCGCACCCCTTGGGTGCTCCCGGCCCGCGCTTAAGAACATTGCCTCTGGGTGTCATG
TGGACCAGACTTCTGAATAGAGAATATTTATAACTTTTGTATGAGAGAG

1469/6881
FIGURE 1366

GGGCTTGTGCGGCATCCTGCTCCGTCTGCAGGTTGTGCTTCCGGTGCGGAGGTCATGGACAAAATGGTGCCACCG
GTGCAGGTCTCTCCGCTCATCAAGCTCGGCCGCTACTCCGCCCTGTTCCCTCGGTGTGGCCTACGGAGCCACGCGC
TACAATTACCTAAAACCTCGGGCAGAAGAGGAGAGGAGGATAGCAGCAGAAGAGAAGAAGAAGCAGGATGAACTG
AAACGGATTGCCAGAGAATTGGCAGAAGATGACAGCATATTAAAGTGAGTGACCCTGCGACCCACTCTTTGGACC
AGCAGCGGATGAATAAAGCTTCCTGTGTTGTGTGAT

1470/6881
FIGURE 1367

MVPPVQVSPLIKLGRYSALFLGVAYGATRYNYLKPRAEERRIAEEKKKQDELKRIARELAEDDSILK

1471/6881
FIGURE 1368

GGAGTGGCAGCCGGAGTCTGAACTGTCCTGGGGGACCAAGCAGGAGCTTAAGATGGGCAAGACCTGGGGCCCTGG
GCAGACGCATCAAAGCAGGCAGAAGCAGGCATGGCCAGCAGGAAGACCAAGAAGAAGGAAGGGGGTGCCCTCCGG
GCCCAGAGAGCCTCATCCAATGTCTTCTCCAACCTTTGAGCAGACTCAGATCCAGGAGTTCAAGGAGGCATTACA
CTCATGGATCAGAACCAGATGGCTTCATTGACAAGGAGGACCTGAAGGACACCTATGCCTCCCTGGGCAAGACC
AACGTCAAGGACGACGAGCTGGACGCCATGCTCAAAGAGGCCTCGGGGCCCATCAACTTCACCATGTTTCTGAAC
CTGTTTGGGGAGAAGCTGAGCGGTACCGACGCCGAGGAGACCATTCTTAACGCCTTCAAGATGCTGGACCCGGAC
GGGAAAGGGAAAATCAACAAGGAGTACATCAAGCGTCTGCTGATGTCCCAGGCTGACAAGATGACGGCGGAAGAG
GTGGACCAGATGTTCCAGTTTCGCCTCCATCGATGTGGCGGGCAACCTGGACTACAAGGCGCTCAGCTACGTGATC
ACCCACGGGGAGGAGAAGGAGGAGTGAGACCCAGCCGGGTCAATAAACCTGGACGCTTGGA

1472/6881
FIGURE 1369

MASRKTKKKKEGGALRAQRASSNVFSNFEQTQIQEFKEAFTLMDQNRDGFIDKEDLKDTYASLGKTNVKDDELDAM
LKEASGPINFMTFLNLFGEKLSGTDAAETILNAFKMLDPDGKGKINKEYIKRLLMSQADKMTAAEEVDQMFQFASI
DVAGNLDYKALSYVITHGEEKEE

1473/6881
FIGURE 1370

CAGTAGTCCTTGGGGCGGAAGTGGCCCCCGTGGCCCCGGCCGGCTCGGCCCCACCTCCGCCCCGAGGCGGTCCC
GGCCCCACGCGGAAGGTCCCTTAAGCCCGGGCGGCCGGCGGGACCGGCGGAGACCCGTGGAGGCCGCCGACGATGG
CGGGGCCGACGGAGGCCGAGACGGGGTTGGCCGAGCCCCGGGCCCTGTGCGCGCAGCGGGGCCACCGACCTACG
CGCGCCGCTGGGTGTTCTGCTCGCGATCAGCCTGCTCAACTGCTCCAACGCCACGATCAACTGGCTGTCACTGG
TCTACCTCGTGGTATCCACCCATTGCGGTGGCGGCCATCTGGATCCTGGACTCCGTGGGGCTCCGTGCGGGCGC
TCGGTGTCTATACCATCCCTGCTGGCGTCTGTGCTGCTGTCCACCATCTGCCTGTGGGAGAGTGTGCCCCCA
CCCCGCCCTCTGCCGGGGCTGCCAGCTCCACCTCAGAGAAGTTCTGGATGGGCTCAAGCCGACGTCATGTGGA
ACAAGGCCTATGTCATCCTGGCTGTGTGCTTGGGGGAATGATCGGGATCTCTGCCAGCTTCTCAGCCCTCCTGG
AGCAGATCCTCTGTGCAAGCGGCCACTCCAGTGGGTTTTCCGGCCTCTGTGGCGCTCTCTTCATCAGTTTGGGA
TCCTGGGGGCACTGGCTCTCGGCCCTATGTGGACCGGACCAAGCACTTCACTGAGGCCACCAAGATTGGCCTGT
GCCTGTTCTCTCTGGCCTGCGTGCCCTTTGCCCTGGTGTCCAGCTGCAGGGACAGACCCTTGCCCTGGCTGCCA
CCTGCTCGCTGCTCGGGCTGTTTGGCTTCTCGGIGGGCCCCGTGGCCATGGAGTTGGCGGTGAGTGTTCCTTCC
CCGTGGGGGAGGGGGCTGCCACAGGCATGATCTTTGTGCTGGGGCAGGCCGAGGGAATACTCATCATGCTGGCAA
TGACGGCACTGACTGTGCGACGCTCGGAGCTGTCTTGTCCACCTGCCAGCAGGGGGAGGATCCACTTGAAGTGA
CAGTGTCTCTGCTGCTGATGGCCGGCCTGTGCACCTTCTTCAGCTGCATCCTGGCGGTCTTCTTCACACCCCAT
ACCGGCGCCTGCAGGCCGAGTCTGGGGAGCCCCCTCCACCCGTAACGCCGTGGGCGGCGCAGACTCAGGGCCGG
GTGTGGACCGAGGGGGAGCAGGAAGGGCTGGGGTCCCTGGGGCCAGCACGGCGACTCCGGAGTGCACGGCGAGGG
GGGCCTCGCTAGAGGACCCAGAGGGCCCGGGAGCCCCACCCAGCCTGCCACCGAGCGACTCCCCGTGCGCAAG
GCCCAGCAGCCACCGACGCGCCCTCCCGCCCCGGCAGACTCGCAGGCAGGGTCCAAGCGTCCAGGTTTATTGACC
CGGCTGGGTCTCACTCCTCCTTCTCCTCCCCGTGGGTGATCAGCTAGCTGAGCGCCTTGTAGTCCAGGTTGCCCCG
CCACATCGATGGAGGCGAACTGGAACATCTGGTCCACCTGCGGGCGGGGGCGAAAGGGCTCCTTGCGGGCTCCGG
GAGCGAATTACAAGCGCGCACCTGCAAAAAAAAAAAAAAAAAAAAA

1474/6881
FIGURE 1371

MAGPTEAETGLAEPRALCAQRGHRITYARRWVFLLAISLLNCSNATINWLSLVYLVVSTPFGVAAIWILDSVGLRA
ALGVYTIPAGVVCLLSTICLWESVPPTPPSAGAASSTSEKFLDGLKPQLMWNKAYVILAVCLGGMIGISASFSA
LEQILCASGHSSGFSGLCGALFITFGILGALALGPYVDRTHFTEATKIGLCFLSLACVPFALVSQLOGQTLALA
ATCSLLGLFGFSVGPVAMELAVECSFPVGEAATGMIFVLQAEGLIMLAMTALTVRRELSLSTCQGEDPLD
WTVSLLLMAGLCTFFSCILAVFFHTPYRRLQAESGEPPSTRNAVGGADSGPGVDRGGAGRAGVLPSTATPECTA
RGASLEDPRGPGSPHPACHRATPRAQGPAATDAPSRPGRLAGRVQASRFIDPAGSHSSFSSPWVIT

1475/6881
FIGURE 1372

GGCACGAGGGGTTCCGTTTCCGGAGTGGAGGGCACGCCAGGGTGTCTGAAGCTGAGACCCCGGGCTCGCAGTCGC
CCCATGAATTTTCGAGTTCCGCAACTGACGCTACTGGGCGGGGCTTCATGGCCAGGGCTCGCTCAGGCCTAAGTT
TCCCCACCTGTGCTCAATGCACAGGTGCGGTGCCGCTCCAGGGCCGGCCGAGAAGAGAGGGCCGACCCGCACGG
GGACTGCATCTCCCAGAGCGCCCCGCGAGCGGCCGAGCGGGGACTCCATGCCCTAGAGTGCCCCGCGGGCGGC
CGGGCGGGCGGGACTCCATGTCTAGAGTGCCCCGCGGGCGGCCGGGCGGGGACTCCATGTCTAGAGTGCCCC
GCGGGCGGGCGGGCGGGGACTCCATGTCTAGAGTGCCCCGCGGGCGGGCGGGCGGGCGGGCGGCCGAACCGAC
AGGTCCGGGACTGGGCGCTGCGGCCCTCGTCCGCGCGCCGGGGCGGGGCGGGGCTAGCTCGACAGCTTCCCGGCGGCTG
CGCGATGGACAGCCCCGAGGTGACCTTCACTCTCGCCTATCTGGTGTTCGCCGTGTGCTTCGTGTTACGCCCAA
CGAGTTCCACGCGGGCGGGGCTCACGGTGACAGAACCTGTGTGGGGCTGGCTGGGCAGCGAGGACGCCGCTTCGT
GCCCTTCCACTTGGCGCCGACGGCCGCCACGCTGTTGTGCCACTCGCTGCTGCCGCTCGGCTACTACGTGGGCAT
GTGCCTTGGCGGCTTCAGAAAAGCGGCTCCACGCCCTCAGCCAGGGCCCTGAGGCCTGGCGGCTCTTCTGTCTGCT
GGCCGTGACCTTCCCTCCATCGCTGCATCCTGATCTACTACTGGTCCCGTGACCGGTGGGCTGCCACCCACT
GGCGCGCACCTTGGCCCTCTACGCCCTCCACAGTCTGGCTGGCAGGCTGTTGCCTCCTCTGTCAACACTGAGTT
CCGGCGGATTGACAAGTTTGCCACCGGTGCACAGGTGCCCGTGTGATTGTGACAGACAGTGGGTGATGAAGGT
AACCACCTACCGAGTGACGTGGCCAGCAGCAGGACGTGCACCTGACTGTGACGGAGTCTCGGCAGCATGAGCT
CTCGCCAGACTCGAACTTGCCCGTGACGCTCCTCACCATCCGTGTGGCCAGCACCAACCTGCTGTGCAGGCCTT
TGACATCTGGAGCTGGAGGCTGCATAGGCTGCATGCAGACAGTGCAGCGTGAAGCTGGTGAAGACCTGCCAG
GAGGCAGCCACAGGCGAGTGCCAGCAGTGTTACTGCCGCCCATGTGGTGCCTCACCTGCATGGGCAAGTGGTTC
GCCAGCCGCCAGGACCCCTGCGCCCTGACACCTGGCTGGCCAGCCGCGTGCCTGCCCAECTGCCGCGCACGC
TTCTGCATCTGGATGTGTGCACCGTGCGCTGAGTGGGCTGGGGCCTTGAGGTGACTCTGTGTCTCCCCGCAAAG
CCACAGGGCAGGGAAGGGGTGGCTGGGCCTCCTGGCTGGCAAAGGGCTCTACTTAAAGCACATGATGTAGAGCA
ACTCGCCTCTGCCCTGGGTCTGCAGAAGGCTGAGGACTTTTGTTAAAAGCAATCCTCATGAAAACACCCACCC
TGCTTGGCAGCCAGGGTACAAGTCTGGGCACCTCCTCTTGGCTCCCTCCTGCCCTTCTCTGCTGGTGGGGC
AGATCCTGCACACACAGACACAGCGTCTGCCCCGAGCCATTCCCTGGAGACCTGGGTCTACCCAGGTGGTCTG
TCATCTGGGCCATTTGCCTTACTTCTCTGGAGCATACCCACCTCAGTTACGTGCCAGACCTGGACCGCATCTC
CTGCCCTGTCTGGAGCTGGCCCTGGCTGCCTGGAGGACCTGGGTAGGTCTGAGGGTGGGATGGAGAAGAGG
GCACTGCTGTGGTGTGGGAGCAGTCTGGGGCTTCTGGTGGCTGTGACCAAGTTAGGGGCTGTTCTGGGTGGG
GTGGCAATGGGAGGACAGGTGAGAGCGCCCTCATTGTGGGGCTGCCCTCCGGGTTTCTCATCCTGTCTTGGT
GCCTTTTTCTGCCCAACAAGTCCAGGGAAGGCCGAGGTCTCAGACTCCTGGGTAGGGGTGGGGGTTTGAGTTGAG
GACCAAAGTGCCATAGCGACATCCAGAACACAAGCCACAGGGGTCCAGCCAGGCTACCCACTCCCTAGGGT
CTCCCAGGCTCAGAAGGGGATGCACGCCCCCTGTGGTCAAGCCTCTGGTGGGCGTCTTGCCAGTTCTGATGGT
TCAAGGGGAGGGGGATGTTGGCCAGGCCCCAGGGCACAGCCCTGACACAGGTGTGGCTACTGGAGGGGCCTTCA
TACCTGCGGCCCAAAGCCCTGGGCTTGGCTGTTTGAGGCAGAGGTGATGGACTCCGGGGGCTGACACTTGGG
ATTTGGGAGGCTTCTAGAGCGCTCAGCAGGTGAAGGCAGAGGGGCCATGGCCGGGAGCCAGGCTAGCTTTGA
ACTGAGTTTCAAGGGCTGCCAAAGAGGGGCAGTGGGTGGGGTGTGTTTACTACAAAATAAGTTACTTAGTTTT
ATAAAGACAAACCGATTGTAGCCAAATGACACCATATTTAATAAAATTTAGTCTGAAGTGAATAAAAAAAAAAAAA
AAAAAA

1476/6881
FIGURE 1373

MDSPEVTFTLAYLVFAVCFVFTPNEFHAAGLTVQNLLSGWLGSEDAFAVFPFHLRRTAATLLCHSLPLGYVVMC
LAASEKRLHALSQAPEAWRLFLLLAVTLPSIACILIIYWSRDRWACHPLARTLALYALPQSGWQAVASSVNTFR
RIDKFATGAPGARVIVTDTWVMKVTTYRVHVAQQQDVHLTVTESRQHELSPDSNLPVQLLTIRVASTNPAVQAFD
IWSWRPA

1477/6881
FIGURE 1374

GGCGGCGGTAGCAGCCAGGCTTGGCCCCGGCGTGGAGCAGACGCGGACCCCTCCTTCCTGGCGGCGGCGGCGCG
GGCTCAGAGCCCGGCAACGGGCGGGCGGGCAGAAATGAGTCTGCAGGTCTTAAACGACAAAAATGTCAGCAATGAA
AAAAATACAGAAAATTGGCACTTCTGTTTTTCGCCACCAGAAGTTACCGGAAGATCGTCTGTTCTTCGTGTGTCA
CAGAAAGAAAATGTGCCACCCAAGAACCTGGCCAAAGCTATGAAGGTGACTTTTCAGACACCTCTGCGGGATCCA
CAGACGCACAGGATTCTAAGTCTTAGCATGGCCAGCAAACCTTGAGGCTCCTTCACTCAGGATGACACCCTTGGA
CTGGAAAACCTCACACCCGGTCTGGACACAGAAAGAGAACCAACAGCTCATCAAGGAAGTGGATGCCAAAACCTACT
CATGGAATTCTACAGAAACCAAGTGGAGGCTGACACCGACCTCCTGGGGGATGCAAGCCAGCCTTTGGGAGTGGC
AGCTCCAGCGAGTCTGGCCAGGTGCCCTGGCTGACCTGGACTGCTCAAGCTCTTCCCAGAGCCAGGAAGTTCT
GAGAACCAAATGGTGTCTCCAGGAAAAGTGTCTGGCAGCCCTGAGCAAGCCGTGGAGGAAAACCTTAGTTCTTAT
TCCTTAGACAGAAGAGTGACACCCGCCTCTGAGACCTTAGAAGACCTTGCAGGACAGAGTCCAGCACAAAGCG
GAGACTCCGCACGGAGCCGAGGAAGAATGCAAAGCGGAGACTCCGCACGGAGCCGAGGAGGAATGCCGGCACGGT
GGGGTCTGTGCTCCCGCAGCAGTGGCCACTTCGCCTCCTGGTGCAATCCCTAAGGAAGCCTGCCGAGGAGCACCC
CTGCAGGGTCTGCCTGGCGAAGCCCTGGGCTGCCCTGCGGGTGTGGGCACCCCGTGCCAGCAGATGGCACTCAG
ACCCTTACCTGTGCACACACCTCTGCTCCTGAGAGCACAGCCCCAACCAACCACCTGGTGGCTGGCAGGGCCATG
ACCCTGAGTCTCAGGAAGAAGTGGCTGCAGGCCAAATGGCCAGCTCCTCGAGGAGCGGACCTGTAAACTAGAA
TTTGATGTATCTGATGGCGCCACCAGCAAAAGGGCACCCCCACCAAGGAGACTGGGAGAGAGGTCCGGCCTCAAG
CCTCCCTTGAGGAAAGCAGCAGTGAAGCAGCAAAAGGCCCGCAGGAGGTGGAGGAGGACGACGGTAGGAGCGGA
GCAGGAGAGGACCCCCCATGCCAGCTTCTCGGGGCTCTTACCACCTCGACTGGGACAAAATGGATGACCCAAAC
TTCATCCCGTTTCGGAGGTGACACCAAGTCTGGTTGCAGTGAAGGCCAGCCCCAGAAAAGCCCTGAGACAGGCTG
GGCCAGCCAGCGGTGAACAGTTGCATGCTGGGCTGCCACGGAGGAGCCAGGTCCCTGTCTGAGCCAGCAGCTG
CATTACGCCTCAGCGGAGGACACGCCTGTGGTGCAGTTGGCAGCCGAGACCCCAACAGCAGAGAGCAAGGAGAG
GCCTTGAACCTCTGCCAGCACCTCGCTTCCACAAAGCTGTCCAGGCACTGAGCCAGTGGCCACCCATCAGCAGGG
CAGCCTGCCTTGAGCTGAAAGAGGAGAGCTTCAGAGACCCCGCTGAGGTTCTAGGCACGGGCGCGGAGGTGGAT
TACCTGGAGCAGTTTGAACTTCTCTGTTTAAGGAGTGGCCCTTGAGGAAGCAGTCTTATACCTCAAGTTTCGAC
CCCCCTCTGAGGGACAGTCTGGTAGACAGTGCCCGTGGCCACCGAGACCAGCAGCATGCACGGTGCAAAATGAG
ACTCCCTCAGGACGTCCGCGGGAAGCCAAGCTTGTGGAGTTTCGATTCTTGGGAGCACTGGACATTCTGTGCCA
GGCCACCCCCAGGTGTTCCCGCGCCTGGGGGCCACCCCTGTCCACCGGACCTATAGTGGACCTGCTCCAGTAC
AGCCAGAAGGACCTGGATGCAGTGGTAAAGGCGACACAGGAGGAGAACCAGGAGCTGAGGAGCAGGTGTGAGGAG
CTCCACGGGAAGAACCTGGAACCTGGGAAGATCATGGACAGGTTTCAAGAGGTTGTGTACCAGGCCATGGAGGAA
GTTTCAAGCAGAAGGAACCTTCCAAAGCTGAAATCCAGAAAGTTCTAAAAGAAAAAGACCAACTTACCACAGAT
CTGAACCTCATGGAGAAGTCTTCTCCGACCTCTTCAAGCGTTTTGAGAAAACAGAAAGAGGTGATCAGGGCTAC
CGCAAGAACGAAGAGTCACTGAAGAAGTGGTGGAGGATTACCTGGCAAGGATCACCCAGGAGGGCCAGAGGTAC
CAAGCCCTGAAGGCCACGCGGAGGAGAAGCTGCAGCTGGCAAACGAGGAGATCGCCAGGTCCGGAGCAAGGCC
CAGGCGGAAGCGTTGGCCCTCCAGGCCAGCCTGAGGAAGGAGCAGATGCGCATCCAGTCGCTGGAGAAGACAGTG
GAGCAGAAGACTAAAGAGAACGAGGAGCTGACCAGGATCTGCGACGACCTCATCTCCAAGATGGAGAAGATCTGA
CCTCCACGGAGCCGCTGTCCCCGCCCCCTGCTCCCGTCTGTCTGTCTGCTGATTCTCTTAGGTGTCTGTTT
TTTTTCTGTCTGTCTTCACTTTTTTAAACTAGATTGCTTTGAAAACATGACTCAATAAAAGTTTCTTTC
AATTTAAAAAAA

1478/6881
FIGURE 1375

MSLQVLNDKNVSNEKNTENCDFLSPPEVTGRSSVLRVSQKENVPPKNLAKAMKVTFQTPLRDPQTHRILSPSMA
SKLEAPFTQDDTLGLENSHPVWTQKENQQLIKEVDAKTHGILQKPVEADTDLLGDASPAFGSGSSSES GPGALA
DLDCSSSSQSPGSSSENQMVSPGKVSQSPEQAVEENLSSYSIDRRVTPASETLEDPCRTESQHKAETPHGAEEEECK
AETPHGAEEECRHGGVCAPAAVATSPPGAIPKEACGGAPLQGLPGEALGCPAGVGTPVPADGTQTLTCAHTSAPE
STAPT NHLVAGRAMT LSPQEEVAAGQMASSSRSGPVKLEFDVSDGATSKRAPPPRRLGERSGLKPPLRKA AVRQQ
KAPQEVEEDDGRSGAGEDPPMPASRGSYHLDWDKMDDPNFIPFGGDTKSGCSEAQPPE SPETRLGQPAAEQLHAG
PATEEPGPCLSQQLHSASAEDTPVVQLAAETPTAESKERALNSASTSLPTSCPGSEPVPTHQQGQPALELKEESF
RDPAEVLGTGAEVDYLEQFGTSSFKESALRKQSLYLKFDPLLRDSPGRPVVPVATETSSMHGANETPSGRPREAKL
VEFDLGLALDIPVPGPPPGVPAPGGPPLSTGPIVDLLQYSQKDLDAVVKATQEENRELSRCEELHGKNLELGI
MDRFEEVVYQAMEEVQKQKELSKAEIQKVLKEKDQLTTDLNSMEKSFSDLFKRFEKQKEVIEGYRKNEESLKKCV
EDYLARITQEGQRYQALKAHAEEKLQLANEEIAQVRSKAQAEALALQASLRKEQMRIQSLEKTVEQTKENEELT
RICDDLISKMEKI

1479/6881
FIGURE 1376A

TGGTCTTGAACCTCTGACCTTGTGATCCGCTCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACC
GTGCCTGTCCTAGAACCACTGGTAACCTCTTAAGTGAACAGATTTGCCATGTTGCCAGGCTGGTCTCGAACT
TCTGAGCTCAAGCGATCTACCTGCCTCGTCTCCCAAAGTGTTGGAATTGCAGGTGTGAGCCACTGCACCCGGCC
CTTGCCCTCATGTTTGAATGATAATTTACCTGGGCATAAAATTTCTGGACACTTGTGGTGGCAGAGCTGTCTGCTT
TTCTGTGGAGACTGCGGGTTGCAGACACCAGCAGCCCCCTATTGCTGCACGTCAGGTGTCTCCACCTCAGTACT
GTGGACATCTCGGGCCGCATAGCCCTGTTGCGCGGGCATCCTGTGCGTTGCAGGAGATGCAGCAGCATCCATGAC
CGCAACCCATCAGAGTGTTCTAAGAACGGAAGCATCTGGGCTGGATGGAATTTAGCATCAAGCAGAGTCCCCTTT
CTGTTCCAGAGTGTTGTAAAGTGCATAAAGATGAAGCAGGCACCAGAAATCCTCGGCAGTGCCAACGGGAAGACTC
CGAGCTGCGAGGTGAACCGCGAGTGTTCTGTGTTCTCAGCAAAGCCCAGCTCTCCAGTAGCCTGCAGGAGGGGG
TCATGCAGAAGTTTAAACGGCCACGACGCCCTGCCCTTTATTCCAGCCGACAAGCTGAAAGATCTTACTTCCCGGG
TGTTTAAATGGAGAACCCGGCGCACACGATGCCAACTGCGTTTGTAGTCCCAGGAAATGAAAGGGATTGGGACAC
CCCCTAACACTACCCCTATCAAAAATGGCTCTCCAGAAATTAAGCTGAAAATCACCAAAACATACATGAATGGGA
AGCCTCTCTTTGAATCTTCCATTTGTGGTGACAGTGCTGCTGATGTGTCTCAGTCAGAAGAAAATGGACAAAAC
CAGAAAACAAGGCGAGAAGGAACAGGAAGAGGAGCATAAAATATGACTCCTTGCTGGAGCAGGGCCTTGTCGAAG
CAGCTCTTGTTGTCTAAGATCTCAAGTCCTTCAGATAAAAAGATTCCAGCTAAGAAAGAGTCTTGTCCAAACACTG
GAAGAGACAAAGACCACCTGTTGAAATACAACTGTTGGTGATTTGGTGTGGTCCAAAGTGTGCGGTTACCCCTTGGT
GGCCTTGCAATGGTTTCTGCAGATCCACTCCTTCACAGCTATACCAAATTAAGGTCAGAAAAAGAGTGCACGCC
AGTATCACGTACAGTTCTTTGGTGACGCCCCAGAAAGAGCTTGGATATTTGAGAAGAGCCTCGTAGCTTTTGAAG
GAGAAGGACAGTTTGAATAATTATGCCAGGAAGTGCCAAGCAGGCACCCACGAAAGCTGAGAAAATTAAGCTAT
TGAAACCAATTTAGGGAAATGAGGGGCCAGTGGGAAATGGGCATTGTTCAAGCAGAAGAAGCTGCAAGCATGT
CAGTGGAGGAGCGGAAAGCCAAGTTCACCTTTCTATGTGGGGGACCAGCTTCATCTCAACCCTCAAGTAGCCA
AGGAGGCTGGCATTGCTGCAGAGTCTTTGGGAGAAATGGCAGAATCCTCAGGAGTCAGTGAAGAAGCTGCGAGAA
ACCCCAAGTCTGTGAGAGAAGAGTGCAATCCCATGAAGAGAAGGCGGAGGGCCAACTGTGTAGCTCTGCAGAGA
CCCTGGAGAGTCACCCGACATAGGGAAGAGTACTCCTCAAAGACGGCAGAGGCTGACCCCAAGAGAGGAGTAG
GGTCTCCTCTGGGAGGAAGAAGACCACAGTCTCCATGCCACGAAGCAGGAAGGGAGATGCAGCATCCAGTTTTT
TGGTCTTCTGTCAAAAACACAGGGATGAGGTGGTAGCTGAGCACCAGATGCTTCAGGTGAGGAGATTGAAGAGC
TGCTCAGGTCACAGTGGAGTCTGCTGAGTGAGAAGCAGAGAGCACGCTACAACACCAAGTTTGCCCTGGTGGCCC
CTGTCCAGGCTGAAGAAGACTCTGGTAATGTAAATGGGAAAAAAGAAACACAAAGAGGATACAGGACCCCTA
CAGAAGATGTGAAGCTGAGGACACACCCAGGAAAGACTCAGGACGGACAAAGCAGTCTTCGGAAGAGAGACA
CAATCACTGACAAAACGGCCAGAACAAGCTCTTACAAGGCCATGGAGGCAGCCTCCTCGCTCAAGAGCCAGGCAG
CAACGAAAAATCTGTCTGATGCATGTAAACCACTGAAGAAGCGAAATCGGGCTTCCACGGCAGCATCTTCAGCTC
TTGGGTTTAGCAAAAGTTTCTCTCTGCTCCTTAACTGAGAAATGAGGTCTCGGACAGCCCGGGAGACGAGC
CCTCGGAGTCCCATACGAAAGTGACAGCAAAACACAAACTGAAGTATCTGTCTCATCAAAAAGTCTGAGCGAG
GAGTGACTGCCAAAAGGAGTATGTGTGCCAGCTGTGTGAGAAGCCGGGCAGCCTCCTGCTCTGTGAAGGACCTT
CCTCAGGGATTCACTCATGTTTCTGTGTGTAAGAGAGCAAGACAGATGTTAAGCGCTGTGTGGTAACTCAGTGTG
GAAAATTTTACCATGAGGCTTGTGTGAAAAAATACCTCTGACTGTATTTGAGAGCCGAGGTTTCCGCTGCCCCC
TCCACAGCTGTGTGAGCTGCCATGCTTCCAACCTTCAAACCCAAGGCCGTCAAAGGTAATAATGATGCGGTGTG
TCCGCTGCCCCGTGCTATCACAGCGGGGATGCTTGTCTGGCAGCAGGATGCTCAGTGATCGCCTCCAACAGCA
TCATCTGCACTGCCCACCTTCACTGCTCGGAAGGGGAAGCGACACCACGCCACGTCACGTGAGCTGGTGCTTCG
TGTGCTCCAAAGGGGGGAGCCTTCTGTGTGTGAGTCTGCTGCCAGCGCCTTCCACCCTGACTGCTGAACATCG
AGATGCCCTGACGGCAGCTGGTCTGCAATGACTGCAGGGCTGGGAAGAAGCTGCACTTCCAGGATATCATTGGG
TGAAACTTGGGAACATACAGATGGTGGCCGCGAGAAGTTTGCCATCCCAAAAATGTTCCCCCAATATTAGAAAA
TGAAGCAGAGATTGGAGAATTCCTGTGTTTTTCTTGGGTCTAAAGATTATTACTGGACGCATCAGGCGCGAG
TGTTCCCGTACATGGAGGGGGACCGGGGCAGCCGTACCAGGGGGTCAGAGGGATCGGAAGAGTCTTCAAAAACG
CACTGCAAGAAGCTGAAGCTCGTTTTCTGTGAAATTAAGCTTCAAGGGGAAGCCCGAGAAACACAGGAGAGCGAGC
GCAAGCCCCCACCATAACAAGCACATCAAGGTGAATAAGCCTTACGGGAAAGTCCAGATCTACACAGCGGATATTT
CAGAAATCCCTAAGTGCAACTGCAAGCCACAGATGAGAATCCTTGTGGCTTTGATTCCGAGTGTCTGAACAGGA

1480/6881
FIGURE 1376B

TGCTGATGTTTGAGTGCCACCCGCAGGTGTGTCCCGGGGCGAGTTCTGCCAGAACCAGTGCTTCACCAAGCGCC
AGTACCCAGAGACCAAGATCATCAAGACAGATGGCAAAGGTGGGGCCTGGTCGCCAAGAGGGACATCAGAAAGG
GAGAATTTGTTAAGAGTACGTTGGGGAGCTGATCGACGAGGAGGAGTGCATGGCGAGAATCAAGCACGCACACG
AGAACGACATACCCACTTCTACATGCTCACTATAGACAAGGACCGTATAATAGACGCTGGCCCCAAAGGAACT
ACTCTCGATTTATGAATCACAGCTGCCAGCCCAACTGTGAGACCCCTCAAGTGGACAGTGAATGGGGACACTCGTG
TGGGCCTGTTTGCCGTCTGTGACATTCTGTCAGGGACGGAGCTGACTTTTAACTACAACCTCGATTGTCTGGGCA
ATGAAAAAACGGTCTGCCGGTGTGGAGCCTCCAATTGCAGTGGATTCTCGGGGATAGACCAAAGACCTCGACGA
CCCTTTTCATCAGAGGAAAAGGGCAAAAAGACCAAGAAGAAAACGAGGCGGCGCAGAGCAAAGGGGAAGGGAAGA
GGCAGTCAGAGGACGAGTGCTTCCGCTGCCGTGATGGCGGGCAGCTGGTGCTGTGTGACCGCAAGTTCTGCACCA
AGGCCTACCACCTGTCTGCTGGCCTTGGCAAGCGGCCCTTCGGGAAGTGGGAATGTCTTGGCATCATTTGTG
ACGTGTGTGGCAAACCTTCGACTTCATTTTGCCACCTCTGCCCAATTCTGTTCTGTAAGGAGCACCAGGACGGGA
CAGCCTTCAGTGCACCCCGGACGGCGGCTCTACTGCTGTGAGCATGACTTAGGGGCGGCATCGGTGAGAGCA
CCAAGACTGAGAAGCCCCCCCCAGAGCCAGGGAAGCCGAAGGGGAAGAGGCGGCGGCGAGGGGCTGGCGGAGAG
TCACAGAGGGCAAATAGCGCCAGGCGGCGCTTGCCCGGATCCAGGGGCGGTGCAGGGCGGCGGCGCTGCTGC
GGGAGAGGGCGGAGCATGAACCTGGCCCGGAGGACCCAGCTCGAGCGGCCAGGACACAGACGTACAGGCCTCTCGG
GAGGGAGCGCCTCCCCACCACTGAGCCATCCTCAGCAGCGTCCGCTGCGTCTGCACTGATGACCGTCTGAGCCCA
GCTCAGCGTTCTTGACAAACAGCCTCACTCCTCAGCGTTACCGCCACACTTGAATTTCTCCGAATGTCAAGGTT
CCCTCCCACTCTATTTTTTAGGTTAAAGTTAATTGGCATATGGAATGTTTAACTCTCTGAAATGTGTAGCG
TAGGCTTTTCCCAAGGGTGCCTAGAACTCGTCTTCGCGTTGCCCGCTTCTGGCTCTCAGCGCGCTCGCCACTC
GGGAGAGGCTGGGTGAGGCCCGTGTGAGGACTGACCTGGATTCTTCGAACTGCCATTGTGATCATTACTCTGC
TCTTTGGAAATGGCTGTATCATTTTTTTGTACTAATGTGAATTGTTCTCAGAAACGCTTCTTTCCATCTAGT
GAGAAGCTGGCCCTGCAGGTGGTGGCAGCAATGGTGTGTGAAGATTTCTCCCGTAGTTTTTCTCCTCATGGAT
TTGAATGAAATGCCAATAACACGTCCACTTTCAACGTGTAGTTTACGCGGAGCACTTTCAGAGCCTGCGCGGTT
GGGCCTACTTCTCACCTGGGCCTATCTTGAACCTCGTAGGTTCTTATCAACATTTGGGGGATAACTTTGTATA
TTTTTTTCATTTGGCTTTTCTTTACCAGTTCTGATTTTTATCTCAATATATTTTTGCTAAACCTATTTACAA
ATCACCCAGGACTGAAGTGTGTGTTTACTGATCGGCCCTGAGCTCCATGGCGAAAGGAGTGAAGTTGCAGGGCG
TGAGACCGCAGTCTGCTTAGAGCACAGGAAGTGACAACCTAGGGAGCCCCGTAGGGCGCTGCAGGCCCCGGGGAC
CCCAGCACGTGGGTCTAAAGAGAGACGGAGTCTAGCTCTCCTGCCACCCAGAGTGGCTTCCATCTCAGCACTCTG
TGGGTCTGGTGATGGAAGATGCAGTCTCTGCTGATCAGTGTGCCCTCTGCCAGGGCACCTACTGAGAGGTGCGG
TCCTGGGGGTGGAGGCTGCTGGCAGGTGTGCGTGCCTCGTACGTGTGTTATGGGCACTGGTCTAGGCCAGGTA
TGACACCCACTCTCCTGTGAGATTTCACTTTAGTTTTTAAAGGTCCAGTTCTACAGAGTGAGACCTATCTATCT
GAGTACTACATATGTTTTAAGACTTGGTCTTTTTTTGAGGATCCTTGACCTGGGAAGTCTGGAGCACCTGA
GAAGGGGGCACCATGTGTGCCCTTTGCCACGTGTCTGAGGGGCTGCTTGTCTGGGAGGAGGGAGAGAATTC
AGCAGCAGGTGCTTTTTTATGGCCTTTTCTTAAATAACCTAAGGGGGACACATCCATCTTGAGAGAAGTTTAC
AGAATCCCCCTGAAAACCTGCTGCTGAGGCTCCTGTAAATTTTCTGTGGCATCTTTTATGCCTTGGTAAAACT
GCAGTGTCTTTGGACCTGAGAGTGGCTACTCCGTGGTTTTGTGACCTGTAAGCGTGGGGTTAGGGGTGTGTGGC
CCTGCAGGGTCCCACGCCTCCCTGAGCACTGACTGGAAGTTTCACTGGCTGGTGGCTGTCCCTTCTCCCATCAGG
GTCCCCAGCAAAGTTAACTACACAGAGGACCCAGGGGAACGAGCTGTGTAGCCACTGACTTGCTCGCGCGGCCG
TGGCCTCTGAGGGGCACTCGCCGTTAAGACAGGGTGGGAGTAGTGCTTTCCAGTTCAGACTCTAAGTTCTCCCA
AAGTGTCTAAGAAAATACTGGATCGGCTCATAGATTTATGCTCCTTATGATGCCCTAAGTTGGAAGGTGTCT
AGGGACAGGCCGGGAGTGTCCCCACACACACCTTAGAGTCAAGGCCCCAGGGCCCCGCTGTCACTTGCCAAA
AGATCCCTCCGGCAGGTAAGGAGTACCAATGCTTACGTCAAAACAGCAGAATCGGCTTTGAGTGCATTTGG
GGAGCAGATATTAACCTATTTTTGTGTTGGACAGTAGTGAAATCTTGTGATTTTTTAACTCGCTTTGATAACTTC
CAAATTTTATGATTTTTCTGAAGGAAATAATGCAACATTTTAAATATGTTTCTCCCCCTTTCCAAAACCTGTTA
AACTAATGAGCAAGTAACACTAAGTTGAATGTCTTACAATACCCGTTGATAACTCAGTGGAGCCAGGCTTTGG
GGTAGCGGCCCTGAGCTTGCAGGGTTTCTCGCCACTGGGGCTGACCACGCCCCAGCTGTGACCGTGGGTGTGGC
TGGCTCTCGGCCCTGCCAGCTTTGTTCTGAGGACGTGGTGAAGTCTTGAACATCAGCTTCAATCTCCATCAT
AATGTGAAGCAAAACACAAAACCGCCCCAATCCCTCAGGATTCTTGGCATCCGAAACCAGCATCTGCACCTAA

1481/6881

FIGURE 1376C

ACCCATACCCACCCGTGTGCGCCACAGGGGGATGTGTCCGAATGGGCAGCTTAAAATGTGGTCACCTGTGGGGG
AAACTCTTCAGGCACCTGAAGTGAGAACCCAGCTGTCCGTCTCAGGCCGGCCTTTCTTCCGGCGACACCCGTCC
ATGGCTGGCTGGGTCCCCCTTCGCAGTGTTTGTCTGTCTTGACATCTAAACCCGGCGTGTGCAGTGCCCATCTTC
CAGGACTACCTTATTTTCCAGAATTAAACCTGTTTTATAATTCAAGTTAATGCAAATGACTGTCAGTTGCCAAAT
ATCTTGATCCCTGTGAGTGTAGTTGATGACTGTTTGTAGTCAGTAGAGTAAAATGCTGTGTCCACGGGGTGTAC
AGCCTCACCAIACCCTGTTGAGGTGTGAAATGCCCCGTGAGAAATTAAATACAACTTAAATGTGCCTATTGGTG
TCTAAACTTCATACAATGTAAGGTCAGATTCCTTTTAGGAATACTGGGTGCTGTCACCAGGTTTGATAGTTAGAC
TTAAAAACTTGAAATTCACTTTTTGGGGGGAGGGATATACTGAAATAGAGAGTTGAGACTTGCCAGTTGGGGGAA
AATAGCATTTAAATGGAAAGCTGTGTTTGGAAAATTGTGTATGAGTATTTTGTATTAAAAACATTTTAAAGGC
TTTTTCTTAA

1482/6881
FIGURE 1377

MEFSIKQSPLSVQSVVKCIKMQAPEILGSANGKTPSCEVNRECSVFLSKAQLSSSLQEGVMQKFNGHDALPFP
ADKLDLTSRVFNCEPAGHDAKLRFESQEMKGIGTPNTTPIKNGSPEIKLKITKTYMNGKPLFESSICGDSAAD
VSQSEENGQKPENKARRNRKRSIKYDSLLEQGLVEAALVSKISSPSDKKIPAKKESCPNTGRDKDHLKYNVGDL
VWSKVSGYPWWPCMVSAADPLLHSYTKLKGQKKSARQYHVQFFGDAPERAWIFEKSLVAFEGEGQFEKLCQESAKQ
APTKAEKIKLLKPISGKLRAQWEMGIVQAEAAASMSVEERKAKFTFLYVGDQLHLNPQVAKEAGIAAESLGEMAE
SSGVSEEAENPKSVREECIPMKRRRAKLCSSAETLESHPDIGKSTPQKTAEADPRRGVGSPPGRKKTTSMPR
SRKGDAASQFLVFCQKHRDEVVAEHPDASGEEIEELLSQWSLLSEKQARARYNTKFALVAPVQAEEDSGNVNGKK
RNHTKRIQDPTEDAEAEADTPRKRLRTDKHSLRKRDTITDKTARTSSYKAMEAASSLKSQAATKNLSACKPLKKR
NRSTAASSALGFSSSSPSASLTENEVSDSPGDEPSESPIESADETQTEVSVSSKKSERGVITAKKEYVCQLCEK
PGSLLLCEGPCCGAFHLACLGLSRRPEGRFTCSECASGIHSCFVCKESKTDVKRCVVTQCGKFYHEACVKKYPLT
VFESRGFRCLHSCVCHASNPNRPSKGGMMRCVRCVPVAYHSGDACLAAGCSVIASNSIICTAHFTARKGKRH
HAHVNVSWCFVCSKGGSLCCESCFAAFHPDCLNIEMPDGSWFCNDCRAGKKLHFQDIWVKLGNRWWPAEVCH
PKNVPPNIQKMKHEIGEFPPVFFFGSKDYYWTHQARVFPYMEGDRGSRYQGVGRVGRVFNALQEAEARFREIKLQ
REARETQESERKPPPYKHIVNKPYGKVQIYTADISEIPKCNCKPTDENPCGFDSECLNRMLMFECHPQVCPAGE
FCQNQCFTKRQYPETKIIKTDGKGWGLVAKRDIRKGEFVNEYVGELIDEEECMARIKHAHENDITHFYMLTIDKD
RIIDAGPKGNYSRPMNHSCQPNCELTWKTVNGDTRVGLFAVCDIPAGTELTFFNYNLDCLGNEKTVCRGASNCSSG
FLGDRPKTSTTLSSSEKGGKTKKTRRRRAKGEGRQSEDECFRCGDGGQLVLCDRKFKTKAYHLSCLGLGKRPF
GKWECPWHHCDVCGKPSTSFCHLCPNSFCKEHQDGTAFSCTPDGRSYCCEHDLGAASVRSTKTEKPPPEPGKPKG
KRRRRRGWRRVTEGK

1483/6881

FIGURE 1378A

TGGTCTTGAACCTCTGACCTTGTGATCCGCTCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACC
GTGCCTGTCTAGAACCACTGGTAACCTCTTAACCTGAGACAAGATTTGCCCATGTTGCCCAGGCTGGTCTCGAACT
TCTGAGCTCAAGCGATCTACCTGCCTCGTCCTCCCAAAGTGTTGGAATTGCAGGTGTGAGCCACTGCACCCGGCC
CTTGCCCTCATGTTTGAATGATAATTTACCTGGGCATAAAATTCTGGACACTTGTGGTGGCAGAGCTGTCTGCTT
TTCTGTGGAGACTGCGGGTTGCAGACACCAGCAGCCCCCTATTGCTGCACGTGAGGTGTCTCCACCTCAGTACT
GTGGACATCTCGGGCCGCATAGCCCTGTTGCGCGGGCATCCTGTGCGTTGCAGGAGATGCAGCAGCATCCATGAC
CGCAACCCATCAGAGTGTTCTAAGAACGGAAGCATCTGGGCTGGATGGAATTTAGCATCAAGCAGAGTCCCTTT
CTGTTTCAAGTGTTGTAAGTGCAATAAGATGAAGCAGGCACCAGAAATCCTCGGCAGTGCCAACGGGAAGACTC
CGAGCTGCGAGGTGAACCGCGAGTGTCTGTGTTCTTCAGCAAAGCCCAGCTCTCCAGTAGCCTGCAGGAGGGGG
TCATGCAGAAGTTTAACGGCCACGACGCCCTGCCCTTTATTCCAGCCGACAAGCTGAAAGATCTTACTTCCCGGG
TGTTTAATGGAGAACCCGGCGCACACGATGCCAACTGCGTTTTGAGTCCCAGGAAATGAAAGGGATTGGGACAC
CCCCTAACACTACCCCTATCAAAAATGGCTCTCCAGAAATTAAGCTGAAAATCACCAAAACATACATGAATGGGA
AGCCTCTCTTTGAATCTTCCATTTGTGGTGACAGTGCTGCTGATGTGTCTCAGTCAGAAGAAAATGGACAAAAAC
CAGAAAACAAGGCGAGAAGGAACAGGAAGAGGAGCATAAAATATGACTCCTTGCTGGAGCAGGGCCTTGTGGAAG
CAGCTCTTGTGTCTAAGATCTCAAGTCCCTTCAGATAAAAAGATTCCAGCTAAGAAAGAGTCTTGTCCAAACACTG
GAAGAGACAAAGACCACCTGTTGAAATACAACGTTGGTGATTTGGTGTGGTCCAAAGTGTGCGGTTACCTTGGT
GGCCTTGCGATGGTTTCTGCGATCCACTCCTTCACAGCTATACCAAATTAAGGTGAGAAAAGAGTGCACGCC
AGTATCACGTACAGTTCTTTGGTGACGCCCCAGAAAGAGCTTGATATTTGAGAAGAGCCTCGTAGCTTTTGAAG
GAGAAGGACAGTTTGAAAAATTATGCCAGGAAAGTGCCAAGCAGGCACCCACGAAAGCTGAGAAAATTAAGCTAT
TGAAACCAATTTTCAAGGAAATTGAGGGCCAGTGGGAAATGGGCATTGTTCAAGCAGAAGAAGCTGCAAGCATGT
CAGTGGAGGAGCGGAAAGCCAAGTTCACCTTTCTCTATGTGGGGGACCAGCTTCATCTCAACCTCAAGTAGCCA
AGGAGGCTGGCATTGCTGCAGAGTCTTTGGGAGAAATGGCAGAATCCTCAGGAGTCAGTGAAGAAGCTGCTGAAA
ACCCCAAGTCTGTGAGAGAAGAGTGCAATCCCATGAAGAGAAGGCGGAGGGCCAACTGTGTAGCTCTGCAGAGA
CCCTGGAGAGTCACCCCGACATAGGGAAGAGTACTCCTCAAAGACGGCAGAGGCTGACCCAGAAAGAGAGTAG
GGTCTCCTCCTGGGAGGAAGAAGACCACAGTCTCCATGCCACGAAGCAGGAAGGAGATGCAGCATCCAGTTTT
TGGTCTTCTGTCAAAAACACAGGGATGAGGTGGTAGCTGAGCACCAGATGCTTCAGGTGAGGAGATTGAAGAGC
TGCTCAGGTACAGTGGAGTCTGCTGAGTGAGAAGCAGAGAGCAGCTACAACACCAAGTTTGCCCTGGTGGCCC
CTGTCCAGGCTGAAGAAGACTCTGTTAATGTAAATGGGAAAAAAGAAACACAAAGAGGATACAGGACCCTA
CAGAAGATGCTGAAGCTGAGGACACACCCAGGAAAAGACTCAGGACGGACAAGCACAGTCTTCGGAGAGAGACA
CAATCACTGACAAAACGGCCAGAACAAGCTCTTACAAGGCCATGGAGGACGCTCCTCGCTCAAGAGCCAGGCAG
CAACGAAAAATCTGTCTGATGCATGTAAACCACTGAAGAAGCGAAATCGGGCTTCCACGGCAGCATCTTCAGCTC
TTGGGTTTAGCAAAAGTTTCTCTCTGTCATCCTTAAGTGAAGTGGTCTCGACAGCCCGGGAGACGAGC
CCTCGGAGTCCCCATACGAAAGTGACAGAGAAACACAACTGAAGTATCTGTCTCATCCAAAAGTCTGAGCGAG
GAGTGAAGTCCAAAAAGGAGTATGTGTGCCAGCTGTGTGAGAAGCCGGGCAGCCTCCTGCTCTGTGAAGGACCCT
GCTGCGGAGCTTTCCACCTCGCCTGCCTTGGGCTTTCCCGAGGCCAGAGGAGGTTACCTGCAGCGAGTGTG
CCTCAGGTGTGCGCCGGCAGCTCTGGGGTCTGTGAGGATGATGAGAGGACACCTGCACAGCCGTGGCCCTTCT
GCCTACTCACCGGGCCCAAGGAGTCTCCTATCTCACGTGAGAACACTTCTGGGTGAGGAGTGTGTCTGCTGCCAGAAATGATAAGTG
CTCCCAGGCCATGGCAGCCCCACAGCAGCACCTCACTTATGGGAGTGTGTCTGCTGCTGCCAGAAATGATAAGTG
ACTGCTCCACCACTGGCCAGCTGCTCTCAAGGAGGAAAGGCCTTTTTCTAGGAGCCCTTCTTTCAAGCTTCT
TGCCAGTTAGACTGGGCTCCCCAGCCAGGCTGCCTAGTAAGATCTCCTGTATTTCAGGTGAAGCTGGAGCTCA
GATCGCAGCAAGGTAATCCTTGATGGCTGGATCTTTTGGTGGAGAATGCTTGGACTAGTGAGCAAGGTTGGAAA
CAGGGCCAGGTGCTTTAGCAGCGTGGCTGCCTCTGAAGAGGAGTTGCTTGATTTTAGTGGCTCAGAAGTCAATT
TAATCTTGTCTTTGCACCTCTCTCTCCACCCCTTCTTTAACTTTTGTAGGGATTCACTCATGTTTCGTGTG
TAAAGAGAGCAAGACAGATGTTAAGCGCTGTGTGGTAACCTCAGTGTGAAAATTTTACCATGAGGCTTGTGTGAA
AAAATACCTCTGACTGTATTGAGAGCCGAGGTTTCCGCTGCCCCCTCCACAGCTGTGTGAGCTGCCATGCTTC
CAACCTTTCAAAACCAAGGCCGTCAAAAGGTAAAATGATGCGGTGTGTCCGCTGCCCCGTGCTATCACAGCGG
GGATGCTTGTCTGGCAGCAGGATGCTCAGTGATCGCCTCCAACAGCATCATCTGCACTGCCACTTCACTGCTCG
GAAGGGGAAGCGACACCACGCCACGTCAACGTGAGCTGGTGTCTCGTGTGCTCCAAAGGGGGAGCCTTCTGTG

1484/6881
FIGURE 1378B

CTGTGAGTCCTGCCCAGCGGCCCTTCCACCCTGACTGCCTGAACATCGAGATGCCTGACGGCAGCTGGTTCTGCAA
TGACTGCAGGGCTGGGAAGAAGCTGCACTTCCAGGATATCATTGGGTGAACTTGGAACTACAGATGGTGGCC
GGCAGAAGTTTGCCATCCCAAAAATGTTCCCCCAAATATTCAGAAAATGAAGCACGAGATTGGAGAATTCCTGT
GTTTTTCTTTGGGTCTAAAGATTATTACTGGACGCATCAGGCGCGAGTGTTCCCGTACATGGAGGGGGACCGGG
CAGCCGCTACCAGGGGGTTCAGAGGGATCGGAAGAGTCTTCAAAAACGCACTGCAAGAAGCTGAAGCTCGTTTTCG
TGAAATTAAGCTTCAGAGGGAAGCCCGAGAAACACAGGAGAGCGAGCGCAAGCCCCACCATAACAAGCACATCAA
GGTGAATAAGCCTTACGGGAAGTCCAGATCTACACAGCGGATATTTAGAAATCCCTAAGTGCCAACTGCAAGCC
CACAGATGAGAACTCTTGTGGCTTTGATTTCGGAGTGCTGAACAGGATGCTGATGTTTGTAGTGCCACCCGAGGT
GTGTCCCGCGGGCGAGTTCTGCCAGAACCAGTGCTTACCAAGCGCCAGTACCCAGAGACCAAGATCATCAAGAC
AGATGGCAAAGGGTGGGGCCTGGTCGCCAAGAGGGACATCAGAAAGGGAGAATTTGTTAACGAGTACGTTGGGGA
GCTGATCGACGAGGAGGAGTGATGGCGAGAATCAAGCACGCACACGAGAACGACATCACCCACTTCTACATGCT
CACTATAGACAAGGACCGTATAATAGACGCTGGCCCCAAAGGAACTACTCTCGATTTATGAATCACAGCTGCCA
GCCCAACTGTGAGACCCTCAAGTGGACAGTGAATGGGGACACTCGTGTGGGCCTGTTTGGCGTCTGTGACATTCC
TGCAAGGACGGAGCTGACTTTTAACTACAACCTCGATTGTCTGGGCAATGAAAAACGGTCTGCCGGTGTGGAGC
CTCCAATTGCAGTGGATTCTCGGGGATAGACCAAAGACCTCGACGACCCTTTCATCAGAGGAAAAGGGCAAAAA
GACCAAGAAGAAAACGAGGCGGCGCAGAGCAAAAGGGGAAGGGAAGAGGAGTCAAGAGGACGAGTGCTTCCGCTG
CGGTGATGGCGGGCAGCTGGTGCTGTGTGACCGCAAGTTCTGCACCAAGGCCTACCACCTGTCTGCTGGGCCCT
TGGCAAGCGGCCCTTCGGGAAGTGGGAATGTCTTGGCATCATTGTGACGTGTGTGGCAAACCTTCGACTTCATT
TTGCCACCTCTGCCCAATTCGTTCTGTAAAGGAGCACCAGGACGGGACAGCCTTCAGCTGCACCCCGGACGGGCG
GTCCTACTGCTGTGAGCATGACTTAGGGGCGGCATCGGTGAGAAGCACCAGACTGAGAAGCCCCCCCCAGAGCC
AGGGAAGCCGAAGGGGAAGAGGCGGCGGCGGAGGGGCTGGCGGAGAGTCAAGAGGGCAAATAGCGCCAGGCGGC
CGCTTGGCCGGATCCAGGGGCGGTGCAGGGCGGCGGCCCTGCTCGGGAGAGGGCGAGCATGAAGTGGCCCGG
AGGACCCAGCTCGAGCCGCCAGGACACAGACGTACAGGCCTCCTCGGGAGGAGCGCCTCCCCACCACTGAGCCA
TCCTCAGCAGCGTCCGCTGCGTCTGCACTGATGACCGTCTGAGCCCAGCTCAGCGTTCCTGGACAAACAGCCTCA
CTCCTCAGCGTTACCGCCACACTTGAATTTCTCCGAATGTCAAGGTTCCCTCCCACTCTATTTTTTTAGGTTAA
GTTAATTGGCATATGGAATGTTTTAATCTCCTCTGAAATGTGTAGCGTAGGCTTTTCCCAAGGGTCGCTAGAAAC
TGGTCTTCGCGTTGCCCTTTCTGGCTCTCAGCGCCGTCGCCACTCGGGAGAGGCTGGGTGAGGCCCGTGTGAG
GACTGACCTGGATTCTCGAAACTGCCATTGTGATCATTACTCTGCTCTTTGGAAATGGCTGTATCATTTTTTT
GTACTAATGTGAATTGTTCTCAGAAACGCTTCTTTTCCATCCTAGTGAGAAGCTGGCCCTGCAGGTGGTGGCAG
CAATGGTGTGTGAAGATTTCCTCCCGTAGTTTTTCTCCTCATGGATTGGAATGAAATGCCAATAACACGTCCAC
TTTCAACGTGTAGTTTACGCGGAGCACTTTCGAGGCGCTGGCCGGTTGGGCCTACTTCTCACCTGGGCCTATCTT
CTGAACCTCGCTAGGTTCTTATCAACATTTGGGGGATAACTTTGTATATTTTTTTTCAATTTGGCTTTTCTTACCAG
TTTCTGATTTTTATTCTCAATATATTTTTTGCTAAACCTATTTTACAAATCACCACCGACTGAAGTGTGTGTTAC
TGATGCGGCCCTGAGCTCCATGGCGAAAGGAGTGACTTTGCAGGGCGTGAGACCGCAGTCTGCTTAGAGCACAGG
AAGTGACAACTTAGGGAGCCCCGTAGGGCGCTGCAGGCCCCGGGGACCCAGCACGTGGGTCTAAAGAGAGACGG
AGTCTAGCTCTCTGCCACCCAGAGTGGCTTCCATCTCAGCACTCTGTGGGTCTGGTGATGGAAGATGCAGTCTC
TGCTGATCACATGTGCCCTCTGCCAGGGCACCTACTGAGAGGTGCGGTCTGGGGGTGGAGGCCTGCCTGGCAGG
TGTGCGTGCCCTCGTACGTGTGTTATGGGCACGTGCTAGGCCAGGTATGACACCCACTCTCCTGTGAGATTTAC
TTTAGTTTTTAAAAGGTCCAGTTCTACAGAGTGAGACCTATCTATCTGAGTACTACATATGTTTTAAGACTTGGT
TCTTTTTTTGAGGGATCCTTGACCCTGGGAAGTCTGGAGCACCTGAGAAGGGGGCACCATGTGTGCCTTTGCCC
ACGTGTCCTGAGGGGCTGCTGTCTGGGAGGGAGGGAGAGAATTACAGCAGCAGGTGCTTTTTTATGGCCTTTT
CTTAAATAACCTAAGGGGACACATCCATCTTGCAGAGAAGTTTACAGAATCCCTTGAAAATGCTGCTGAG
GCTCCTGTGTAATTTTCTGTGGCATCTTTTATGCCCTTGGTAAAAACTGCAGTGTCTTTGGACCTGAGAGTGGCTA
CTCCGTGGTTTTGTGACCTGTAAAGCGTGGGGTTCAGGGGTGTGTGGCCCTGCAGGGTCCACGCCTCCTGAGCA
CTGACTGGAAGTTTCACTGGCTGGTGGCTGTCCCTTCTCCCATCAGGGTCCCCAGCAAAGTTAACTACACAGAGG
ACCCAGGGGAAACGAGCTGTGTAGCCACTGACTTGTCTCGCGCGGCCGTGGCCTCTGAGGGGCACTCGCCGTTAA
GACAGGGTGGGAGTAGTCTTTCCAGTTCAGACTCTAACTTCTCCCAAAGTGTCTAAGAAAATACTGGATCGGC
TCATAGATTTATGCTCCTTATGATGCCCTAACTTGAAGGTTGTTCTAGGGACAGGCCGGGCAGTGTCCCCACAC

1485/6881
FIGURE 1378C

ACACCTTAGAGTCGAAGGCCCCAGGGCCCCGCTGTCACTTGCCCCAAAAGATCCCTTCCGGCAGGTAAGGGACTAC
CAATGCTTACGTCAAAACAGCAGAATCGGCTTTGCAGTGCACTTTGGGGAGCAGATATTAACCTATTTTGTGTT
GGACAGTAGTGAAATCTTGTGATTTTAAATCGCTTGATAATACTTCCAAATTTTATGATTTTCTGAAGGAAAT
AATGCAAACATTTTAAATATGTTTCTCCCCCTTTCCAAAACTGTAAACTAATGAGCAAGTAACACTAACTTTG
AATGTCTCTACAATACCCGTTGATAACTCAGTGGAGCCAGGCTTTGGGGTAGCGGCCCTGAGCTTGCAGGGTTTC
TCGCCACTGGGGCTGACCACGCCCCAGCTGTGACCGTGGGTGTGGCTGGCTCTCGGCCCTGCCAGCTTTGTTC
TGAGGACGTGGTGACTTCCTGAACATCAGCTTCAATCCTCCATCATTAAATGTGAAGCAAAACACAAAAACGCCC
CAATCCCTCAGGATTCTTGGCATCCGAAACCAGCATCTGCACCTAAACCCATACCCACCCGTGTGCGCCACAG
GGGATGTGTCCGAATGGGCAGCTTAAATGTGGTCACCTGTGGGGGAACTCTTCAGGCACCTGAAGTGAGAAC
CCAGCTGTCCGTCTCAGGCCGGCCTTTCTTCCGGCGACACCCGTCCATGGCTGGCTGGGTCCCTTCGCAGTGT
TTGTCTGTCTTGACATCTAAACCCCGGCGTGTGCAGTGGCCATCTTCCAGGACTACCTTATTTCCAGAATTAAA
CCTGTTTTATAATTCAAGTTAATGCAAATGACTGTCAGTTGCCAAATATCTTGATCCTGTGAGTGTAGTTGATGA
CTGTTTGTAGTCAGTAGAGTAAATGCTGTGTCCACGGGGTGTACAGCCTCACCATACCCTGTTGAGGTGTGA
AATGCCCCGTCAGAAATTAAATACAACTTAAATGTGCCTATTGGTGTCTAACTTCATACAATGTAAGGTCAGA
TTCCTTTTAGGAATACTGGGTGCTGTGCACCAGGTTTGATAGTTAGACTTAAAACTTGAAATCACTTTTGGGG
GGAGGGATATACTGAAATAGAGAGTTGAGACTTGCCAGTTGGGGGAAATAGCATTAAATGGAAGCTGTGTT
TGGAAATGTGTATGAGTATTTTGTATTAAAAACATTTTAAAGGCTTTTTTCTTAA

1486/6881
FIGURE 1379

MEFSIKQSPLSVQSVVKCIKMQAPEILGSANGKTPSCEVNRECSVFLSKAQLSSSLQEGVMQKFNGHDALPFI
ADKLDLTSRVFNGEPGAHDAKLRFESQEMKGIGTPNNTPIKNGSPEIKLKITKTYMNGKPLFESSICGDSAAD
VSQSEENGQKPENKARRNRKRSIKYDSLLEQGLVEAALVSKISSPSDKKIPAKKESCPNTGRDKDHLLKYNVGD
VWSKVSGYPWWPCMVSAADPLLHSYTKLKGQKKSARQYHVQFFGDAPERAWIFEKSLVAFEGEGQFEKLCQESAKQ
APTAEKIKLLKPI SGKLRAQWEMGIVQAEAAASMSVEERKAKFTFLYVGDQLHLNPQVAKAEAGIAAESLGEMAE
SSGVSEAAENPKSVREECIPMKRRRRRAKLCSSAETLESHPDIGKSTPQKTAEADPRRGVGSPPGRKKTVMSPR
SRKGDAASQFLVFCQKHRDEVVAEHPDASGEEIEELLRSQWSLLSEKQARYNTKFALVAPVQAEEDSGNVNGKK
RNHTKRIQDPTEDAEAEDTPRKRLRDKHSLRKRTITDKTARTSSYKAMEAASSLKSQAATKNLSDACKPLKKR
NRSTAASSALGFSSSSPSASLTENEVSDSPGDEPSESPIESADETQTEVSVSSKKSERGVTAKEYVCQLCEK
PGSLLLCEGPCCGAFHLACLGLSRREGRFTCSECASGVARHSLGSVRMMRGHLHSRGPSCLLTGPKESPISRQN
TSWVRKTPGESPRPWQPHSSTSMLGVSVCCLPRMISDCSTTGQLLSRRKGLFS

1487/6881
FIGURE 1380A

TGGTCTTGAACTCCTGACCTTGTGATCCGCTCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACC
GTGCCTGTCTAGAACCACTGGTAACTCTTAAGTGAACAAGATTTCGCCATGTTGCCAGGCTGGTCTCGAACT
TCTGAGCTCAAGCGATCTACCTGCCTCGTCTCCCAAAGTGTTGGAATTGCAGGTGTGAGCCACTGCACCCGGCC
CTTGCCCTCATGTTTGAATGATAATTTACCTGGGCATAAAATTTCTGGACACTTGTGGTGGCAGCAGCTGTCTGCTT
TTCTGTGGAGACTGCGGGTTGCAGACACCAGCAGCCCCCTATTGTGTCACGTACAGGTGTCCTCCACCTCAGTACT
GTGGACATCTCGGGCCGCATAGCCCTGTTGCGCGGGCATCCTGTGCGTTGCAGGAGATGCAGCAGCATCCATGAC
CGCAACCCATCAGAGTGTTCTAAGAACGGAAGCATCTGGGCTGGATGGAATTTAGCATCAAGCAGAGTCCCCCTTT
CTGTTTCAGAGTGTTGTAAAGTGCATAAAGATGAAGCAGGCACCAGAAATCCTCGGCAGTGCCAACGGGAAGACTC
CGAGCTGCGAGGTGAACCGCGAGTGTTCTGTGTTCTCTCAGCAAAGCCCAGCTCTCCAGTAGCCTGCAGGAGGGG
TCATGCAGAAAGTTTAAACGGCCACGACGCCCTGCCCTTTATTCCAGCCGACAAGCTGAAAGATCTTACTTCCCGGG
TGTTTAAATGGAGAACCCGGCGCACACGATGCCAACTGCGTTTTGAGTCCCAGGAAATGAAAGGGATTGGGACAC
CCCCTAACCTACCCCTATCAAAAATGGCTCTCCAGAAATTAAGCTGAAAATCACCAAAACATACATGAATGGGA
AGCCTCTCTTTGAATCTTCCATTTGTGGTGACAGTGCTGCTGATGTGTCTCAGTCAGAAGAAAATGGACAAAAC
CAGAAAACAGGCGAGAAGGAACAGGAAGAGGAGCATAAAATATGACTCCTTGCTGGAGCAGGGCCCTTGTGCAAG
CAGCTCTTGTGTCTAAGATCTCAAGTCTTCAGATAAAAAGATTCCAGCTAAGAAAGAGTCTTGTCCAAACACTG
GAAGAGACAAAGACCACCTGTTGAAATACAACGTTGGTGATTGGTGTGGTCCAAAGTGTCGGGTTACCCCTGGT
GGCCTTGCGATGGTTTCTGCAGATCCACTCCTTTCACAGCTATACCAAATTAAGGTCAGAAAAAGAGTGCACGCC
AGTATCACGTACAGTTCCTTGGTGACGCCCCAGAAAGAGCTTGGATATTTGAGAAGAGCCTCGTAGCTTTTGAAG
GAGAAGGACAGTTTGAAAAATATGCCAGGAAAGTGCCAAGCAGGCACCCACGAAAGCTGAGAAAATTAAGCTAT
TGAAACCAATTTTCAGGGAAATGAGGGCCAGTGGGAAATGGGCATTGTTCAAGCAGAAGAAGCTGCAAGCATGT
CAGTGGAGGAGCGGAAAGCCAAGTTCACCTTTCTCTATGTGGGGGACAGCTTCATCTCAACCTCAAGTAGCCA
AGGAGGCTGGCATTGCTGCAGAGTCTTGGGAGAAATGGCAGAATCCTCAGGAGTCAGTGAAGAAGCTGCTGAAA
ACCCCAAGTCTGTGAGAGAAGAGTGCATTCCCATGAAGAGAAGGCGGAGGGCCAACTGTGTAGCTCTGCAGAGA
CCCTGGAGAGTCACCCGACATAGGGAAGAGTACTCCTCAAAAGACGGCAGAGGCTGACCCCAAGAGGAGTAG
GGTCTCCTCTGGGAGGAAGAAGACCACAGTCTCCATGCCACGAAGCAGGAAGGGAGATGCAGCATCCAGTTTT
TGGTCTTCTGTCAAAAACACAGGGATGAGGTGGTAGCTGAGCACCAGATGCTTCAGGTGAGGAGATTGAAGAGC
TGCTCAGGTCACAGTGGAGTCTGCTGAGTGAGAAGCAGAGAGCAGCTACAACACCAAGTTTGCCCTGGTGGCCC
CTGTCCAGGCTGAAGAAGACTCTGGTAATGTAATGGGAAAAAAGAAACACACAAAGAGGATACAGGACCCTA
CAGAAGATGCTGAAGCTGAGGACACACCCAGGAAAAGACTCAGGACGGACAAGCACAGTCTTCGGAAGAGAGACA
CAATCACTGACAAAACGGCCAGAACAAGCTCTTACAAGGCCATGGAGGACGCTCCTCGCTCAAGAGCCAGGCAG
CAACGAAAAATCTGTCTGATGCATGTAAACCACTGAAGAAGCGAAATCGGGCTTCCACGGCAGCATCTTCAGCTC
TTGGGTTTAGCAAAAGTTTCATCTCCTTCTGCATCCTTAACTGAGAATGAGCTTTTGTGGGAGCCACACCAAGTCA
AGTTGGATTGAACCCAGCTGCTCTGTACTGCATGAGATGTAATATTCCAGGATGCTGCTGAGGTGGCG
TATCATCGTACACACTCAGTGACATTTCTATCACAATCATTTTATGGAAGATGTGTGATAATCTGTTTTACTGG
TATTAATAAACACATACAATGAAGAAAACAGATAACAAATTTTAAGACCAAGGTCTCGGACAGCCCGGAGACGA
GCCCTCGGAGTCCCCATACGAAAGTGACAGCGAAACAACTGAAGTATCTGTCTCATCCAAAAGTCTGAGCG
AGGAGTGACTGCCAAAAGGAGTATGTGTGCCAGCTGTGTGAGAAGCCGGGCAGCCTCCTGCTCTGTGAAGGACC
CTGCTGCGGAGCTTTCCACCTCGCCTGCTTGGGCTTTCCCGAGGCCAGAAGGGAGGTTACCTGCAGCGAGTG
TGCCCTCAGGGATTCACTCATGTTTCGTGTGTAAAGAGAGCAAGACAGATGTTAAGCGCTGTGTGGTAACTCAGTG
TGGAAAAATTTTACCATGAGGCTTGTGTGAAAAAATACCCTCTGACTGTATTTGAGAGCCGAGGTTTCCGCTGCCC
CCTCCACAGCTGTGTGAGCTGCCATGCTTCCAACCTTCAACCCAAAGGCCGTCAAAAGGTAAAATGATGCGGTG
TGTCCGCTGCCCCGTTGCCATACACAGCGGGGATGCTTGTCTGGCAGCAGGATGCTCAGTGATCGCCTCCAACAG
CATCATCTGCACCTGCCACTTCACTGCTCGGAAGGGGAAGCGACACCACGCCACGTCAACGTGAGCTGGTGCTT
CGTGTGCTCCAAAGGGGGGAGCCTTCTGTGTGTGAGTCTGCCAGCGGCCTTCCACCTGACTGCCTGAACAT
CGAGATGCTGCAGGACGCTGGTTCTGCAATGACTGCAGGGCTGGGAAGAAGCTGCACCTCCAGGATATCATTTG
GGTGAAACTTGGGAACACAGATGGTGGCCGCGAGAAGTTTGCCATCCCAAAAATGTTCCCCCAAATATTAGAA
AATGAAGCACGAGATTGGAGAATTCCCTGTGTTTTCTTTGGGTCTAAAGATTATTACTGGACGCATCAGGCGCG
AGTGTTCCTGTACATGGAGGGGACCGGGGAGCCGCTACCAGGGGGTCAGAGGGATCGGAAGAGTCTTCAAAAA

1488/6881
FIGURE 1380B

CGCACTGCAAGAAGCTGAAGCTCGTTTTTCGTGAAATTAAGCTTCAGAGGGAAGCCCGAGAAACACAGGAGAGCGA
GCGCAAGCCCCACCATAACAAGCACATCAAGGTGAATAAGCCTTACGGGAAAGTCCAGATCTACACAGCGGATAT
TTCAGAAATCCCTAAGTGCAACTGCAAGCCCACAGATGAGAATCCTTGTGGCTTTGATTCCGAGTGTCTGAACAG
GATGCTGATGTTTGTAGTGCCACCCGAGGTGTGTCCCGCGGGCGAGTTCTGCCAGAACCAGTGTCTACCAAGCG
CCAGTACCCAGAGACCAAGATCATCAAGACAGATGGCAAAGGGTGGGGCCTGGTCGCCAAGAGGGACATCAGAAA
GGGAGAATTTGTTAACGAGTACGTTGGGGAGCTGATCGACGAGGAGGAGTGCATGGCGAGAATCAAGCACGCACA
CGAGAACGACATCACCCACTTCTACATGCTCACTATAGACAAGGACCGTATAATAGACGCTGGCCCCAAAGGAAA
CTACTCTCGATTTATGAATCACAGCTGCCAGCCCACTGTGAGACCCTCAAGTGGACAGTGAATGGGGACACTCG
TGTGGGCCTGTTTGCCGTCTGTGACATTCTGTCAGGGACGGAGCTGACTTTTAACTACAACCTCGATTGTCTGGG
CAATGAAAAAACGGTCTGCCGGTGTGGAGCCTCCAATTGCAGTGGATTCTCGGGGATAGACCAAAGACCTCGAC
GACCCCTTTCATCAGAGGAAAAGGGCAAAAAGACCAAGAAGAAAACGAGGCGGCGCAGAGCAAAAGGGGAAGGGAA
GAGGCAGTCAGAGGACGAGTGTCTCCGCTGCCGTGTAGGCGGGCAGCTGGTGCTGTGTGACCGCAAGTTCTGCAC
CAAGGCCTACCACCTGTCTGCCCTGGGCCTTGGCAAGCGGCCCTTCGGGAAGTGGGAATGTCTTGGCATCATTG
TGACGTGTGTGGCAAACCTTCGACTTCATTTTGGCACCTCTGCCCAATTCTGTTCTGTAAGGAGCACCAGGACGG
GACAGCCTTCAGCTGCACCCCGGACGGGCGGTCTACTGCTGTGAGCATGACTTAGGGGCGGCATCGGTGAGAAG
CACCAAGACTGAGAAGCCCCCCCCCAGAGCCAGGGAAGCCGAAGGGGAAGAGGCGGCGGCGGAGGGGCTGGCGGAG
AGTCACAGAGGGCAAATAGCGCCAGGCGGCCGTCTGGCCGGATCCAGGGGCGGTGCAGGCGCGGCCCGCCCTGCCT
GCGGGAGAGGGCGAGCATGAAC TGCCCGGAGGACCCAGCTCGAGCCGCCAGGACACAGACGTACAGGCTCTCTC
GGGAGGGAGCGCCTCCCCACCACTGAGCCATCCTCAGCAGCGTCCGCTGCGTCTGCACTGATGACCGTCTGAGCC
CAGCTCAGCGTTCTTGACAAACAGCCTCACTCCTCAGCGTTACCGCCACACTTGAATTTCTCCGAATGTCAAGG
TTCCCTCCCACTCTATTTTTTTTAGGTTAAAGTTAATTGGCATATGGAATGTTTTAATCTCCTCTGAAATGTGTAG
CGTAGGCTTTTCCCAAGGGTCGCTAGAAACTCGTCTTCGCGTTGCCCTTTCTGGCTCTCAGCGCCGTCGCCAC
TCGGGAGAGGCTGGGTGAGGCCCGTGTGAGGACTGACCCTGGATTCTCGAAACTGCCATTGTGATCATTACTCT
GCTCTTTGGAATGGCTGTATCATTTTTTTGTACTAATGTGAATTGTCTCCTCAGAAACGCTTCTTTTCCATCCTA
GTGAGAAGCTGGCCCTGCAGGTGGTGGCAGCAATGGTGTGTGAAGATTCTCCTCCGTAAGTTTTTCTCCTCATGG
ATTTGAATGAAATGCCAATAACACGTCCACTTTCAACGTGTAGTTTACGCGGAGCACTTTTCGAGGCCTGGCCGGG
TTGGGCCTACTTCTACCTGGGCCTATCTTCTGAACCTCGTATAGTTTCTATCAACATTTGGGGGATAACTTTGTA
TATTTTTTTCATTGGCTTTTCTTTACAGTTTCTGATTTTTTATTCTCAATATATTTTTTGCTAAACCTATTTTAC
AAATCACCACCGACTGAAGTGTGTGTTTACTGATGCGGCCCTGAGCTCCATGGCGAAAGGAGTGACTTTGCAGGG
CGTGAGACCGCAGTCTGCTTAGAGCACAGGAAGTGACAACCTAGGGAGCCCCGTAGGGCGCTGCAGGCCCGGGG
ACCCACGACAGTGGGTCTAAAGAGAGACGGAGTCTAGCTCTCCTGCCACCCAGAGTGGCTTCCATCTCAGCACTC
TGTGGGTCTGGTGATGGAAGATGCAGTCTCTGCTGATCAGATGTGCCCTCTGCCAGGGCACCTACTGAGAGGTGC
GGTCTTGGGGGTGAGGCCCTGCCTGGCAGGTGTGCGTGCCTCGTACGTGTGTTATGGGCAGTGGTCTAGGCCAGG
TATGACACCCACTCTCCTGTGAGATTTCACTTTAGTTTTTAAAGGTCCAGTTCTACAGAGTGAGACCTATCTAT
CTGAGTACTACATATGTTTTAAGACTTGGTTCTTTTTTTGAGGGATCCTTGACCCTGGGAAGTCTGGAGCACCCCT
GAGAAGGGGGCACCATGTGTGCCCTTTGCCACGTGTCTGAGGGGCTGCTTGTCTGGGAGGGAGGGAGAGAACAT
TCAGCAGCAGGTGCTTTTTTATGGCCTTTTCTTAAATAACCTAAGGGGGACACATCCATCTTGAGAGAAGTTT
ACAGAACTCCCTTGAAAACCTGCTGCTGAGGCTCCTGTTAAATTTTCTGTGGCATCTTTTATGCCTTGGTAAAAA
CTGCAGTGTCTTTGGACCTGAGAGTGGCTACTCCGTGGTTTTGTGACCTGTAAGCGTGGGGTTTCAGGGGTGTGTG
GCCCTGCAGGGTCCCACGCCTCCCTGAGCACTGACTGGAAGTTTCACTGGCTGGTGGCTGTCCCTTCTCCCATCA
GGGTCCCCAGCAAAGTTAACTACACAGAGGACCCAGGGGAAACGAGCTGTGTAGCCACTGACTTGCTCGCGCGGC
CGTGGCCTCTGAGGGGCACTCGCCGTTAAGACAGGGTGGGAGTAGTGCTTTCCAGTTCAGACTCTAACTTCTCC
CAAAGTGTCTTAAGAAAATACTGGATCGGCTCATAGATTTATGCTCCTTATGATGCCCTAACTTGAAGGTTGTT
CTAGGGACAGGCCGGGCGAGTGTCCCCACACACCTTAGAGTCAAGGCCCCAGGGCCCCGTGTCACTTGCCCA
AAAGATCCCTTCCGCGAGGTAAGGGACTACCAATGCTTACGTCAAAACAGCAGAATCGGCTTTGCAGTGCATTT
GGGGAGCAGATATTAACCTATTTTTTGTGTTGGACAGTAGTGAAATCTTGATTTTTTAAATCGCTTTGATAATACT
TCCAAATTTTATGATTTTTTCTGAAGGAATAATGCAACATTTTTAAATATGTTTCTCCCCCTTTCCAAAACCTGT
TAACTAATGAGCAAGTAACACTAATTTGAATGTCTCTACAATACCCGTTGATAACTCAGTGGAGCCAGGCTTT

1489/6881

FIGURE 1380C

GGGGTAGCGGCCCTGAGCTTGCAGGGTTTCTCGCCACTGGGGCTGACCACGCCCCCAGCTGTGACCGTGGGTGTG
GCTGGCTCTCGGCCCTGCCCAGCTTTGTTCTGAGGACGTGGTGAATTCCTGAACATCAGCTTCAATCCTCCATCA
TTAATGTGAAGCAAAACACAAAACCGCCCCAATCCCTCAGGATTCCCTGGCATCCGAAACCAGCATCTGCACCT
AAACCCATACCCACCCGTGTGCGCCACAGGGGGATGTGTCCGAATGGGCAGCTTAAATGTGGTCACCTGTGGG
GGAAACTCTTCAGGCACCTGAAGTGAGAACCCAGCTGTCCGTCTCAGGCCGGCCTTTCTTCCGGCGACACCCGT
CCATGGCTGGCTGGGTCCCCTTCGCAGTGTGTTGCTGTCTTGACATCTAAACCCCGGCGTGTGCAGTGCCCATCT
TCCAGGACTACCTTATTTTCCAGAATTAAACCTGTTTTATAATTCAAGTTAATGCAAATGACTGTCAGTTGCCAA
ATATCTTGATCCTGTGAGTGTAGTTGATGACTGTTTGTAGTCAGTAGAGTAAATGCTGTGTCCACGGGGTGTG
ACAGCCTCACCATACCCGTGTTGAGGTGTGAAATGCCCGTCAGAAATTAAATACAACTTAAATGTGCCTATTGG
TGTCTAAACTTCATACAATGTAAGGTCAGATTCCCTTTTAGGAATACTGGGTGCTGTCCACAGGTTTGATAGTTAG
ACTTAAAAACTTGAAATTCACTTTTTGGGGGGAGGGATATACTGAAATAGAGAGTTGAGACTTGCCAGTTGGGGG
AAAATAGCATTAAATGGAAAGCTGTGTTTGAAAATTGTGTATGAGTATTTTGTATTAAAAACATTTTAAAG
GCTTTTTCTTAA

1490/6881
FIGURE 1381

MEFSIKQSPLSVQSVVKCIKMKQAPEILGSANGKTPSCEVNRECSVFLSKAQLSSSLQEGVMQKFNGHDALPFIP
ADKLDLTSRVFNGEPGAHDALRFESQEMKGIGTPPNTTPIKNGSPEIKLKITKTYMNGKPLFESSICGDSAAD
VSQSEENGQKPENKARRNRKRSIKYDSLLEQGLVEAALVSKISSPSDKKIPAKKESCPNTGRDKDHLKYNVGD
VWSKVSGYPWWPCMVSAADPLLHSYTKLKGQKKSARQYHVQFFGDAPERAWIFEKSLVAFEGEGQFEKLCQESAKQ
APTKAEKIKLLKPISGKLRAQWEMGIVQAEAAASMSVEERKAKFTFLYVGDQLHLNPQVAKEAGIAAESLGEMAE
SSGVSEEAENPKSVREECIPMKRRRRRAKLCSSAETLESHPDIGKSTPQKTAEADPRRGVGSPPGRKKTIVSMR
SRKGDAAASQFLVFCQKHRDEVVAEHPDASGEEIEELLRSQWSLLSEKQRARYNTKFALVAPVQAEEDSGNVNGKK
RNHTKRIQDPTEDAEAEDTPRKRLRTDKHSLRKRDTITDKTARTSSYKAMEAASSLKSAATKNLSDACKPLKKR
NRSTAASSALGFSKSSSPSASLTENELLWEPTPVKLDLNPAAALYCT

1491/6881
FIGURE 1382

TAGCGAGGGACGCGTAGGTGTCTTCATAAGATGCCGGGGCAGCGGCGCGCTTTCCCCAAGATGGCGTCCATG
CGGGAGAGCGACACGGGCGCTGTGGCTGCACAACAAGCTGGGGGCCACGGACGAGCTGTGGGCGCCGCCAGCATC
GCGTCCCTGCTCACGGCCGCGGTTCATCGACAACATCCGTCTCTGCTTCCATGGCCTCTCGTCGGCAGTGAAGCTC
AAGTTGCTACTCGGGACGCTGCACCTCCCGCGCCGCACGGTGGACGAGATGAAGGGCGCCCTAATGGAGATCATC
CAGCTCGCCAGCCTCGACTCGGACCCCTGGGTGCTCATGGTCGCCGACATCTTGAAGTCCTTTCCGGACACAGGC
TCGCTTAACCTGGAGCTGGAGGAGCAGAATCCCAACGTTTCAAGATATTTTGGGAGAACCTAGAGAAAAGGTGGGT
GAGTGTGAAGCGTCTGCCATGCTGCCACTGGAGTGCCAGTACTTGAACAAAAACGCCCTGACGACCCCTCGCGGGA
CCCCCTACTCCCCCGGTGAAGCATTTTTCAGTTAAAGCGGAACCCCAAGAGCGCCACGCTGCGGGCGGAGCTGCTG
CAGAAGTCCACGGAGACCGCCAGCAGTTGAAGCGGAGCGCCGGGTGCCCCTTCCACGCCAAGGGCGGGGGCTG
CTGCGGAAGATGGACACCACCCCACTCAAAGGCATCCCGAAGCAGGCGCCCTTCAAGGCCACGGCGCCC
AGCGTCTTCAAGCCACAGGGAACCGGACCCCATCCCGCCTTCCAGGACGCTGCTGCGGAAGGAACGAGGTGTG
AAGCTGCTGGACATCTCTGAGCTGGATATGGTTGGCGCTGGCCGAGAGGCGAAGCGGAGAAGGAAGACTCTCGAT
GCGGAGGTGGTGGAGAAGCCGCGCAAGGAGGAACGGTGGTGGAGAACGCCACCCCGGACTACGCAGCCGGCCTG
GTGTCCACGCAGAACTTGGGTCCCTGAACAATGAGCCTGCGCTGCCCTCCACGAGCTACCTTCCCTCCACGCCC
AGCGTGGTTCCCGCCTCCTCTACATCCCCAGCTCCGAGACGCCCCAGCCCATCTTCCCGGAAGCCAGCCGC
CCACCAGAGGAGCCAGCGCCCGAGCCCACTGTCAGCGCAGTTCAAGCAGCGGGCGCCCATGTACAACAGC
GGCCTGAGCCCTGCCACACCACGCCTGCGGCGCCACCTCGCCTCTGACACCCACCACCTCCGGCTGTGCGC
CCTACCACTCAGACACCCCGGTGCCATGGTGGCCCCGAGACCCAGGCCCTGCTCAGCAGCAGCCTAAGAAG
AACCTGTCCCTCAGGAGAGAGCAGATGTTGCTGCCCAGGAGATGTTCAAGACGGCCAACAAAGTCACGCGGCCC
GAGAAGGCCCTCATCCTGGGCTTCATGGCCGGCTCCCGAGAGAACCCTGCCAGGAGCAGGGGGACGTGATCCAG
ATCAAGCTGAGCGAGCACACGGAGGACCTGCCCCAAGCGGACGCCAGGGTAGCACAACCATGCTGGTGGACACA
GTGTTTGAGATGAACTATGCCACGGGCCAGTGGACGCGCTTCAAGAAGTACAAGCCCATGACCAATGTGTCCTAG

AACCACCTGCCTCACAGCTGGCCGTCACCTTGTGGGGTCCACGGGACGATGGCTTTGCCAGCTTAAAGTAACCGG
ATGGCGGACACCTGGCCCCGAGTCCCCCGGCCGCCGCTGCTGCTGACCCAGCCTGTTTTAAGTTCTGGATG
CATTTCTCTGGGGTATTTGGGGCTTATTTTAAAAATTTAATATGGGTTCTTTTTTGTGTGATTTAAAGACACTT
TTTGGACTCAACGTTACATTTTGAATGTAGTAAGTAAATTAACCAAAAAAGTTACAACCTCCTAATTTTAGTGA
CAGCTCTGCCTGTTTGTAGACTCTTACTTTTTAAAACTTTTTCTATTTTCCCTCGCTGGGGCAGTGCCTCCTA
CCCCAGGGTTGAGGGACCAAGGTGGCACGGTGGTACTGGGGGTGCGGCAGGGACACCCGACCACACCAGAGCG
TGGGAGACGGTGGGCCTTGTCCCCTGCTGCTGCTGGGAGTTTTGTATTCTTTTGTATAGTTGTGGAC
ATTTAAGACAGTCTTTGGGTACCTATTTTCATTGTAAACTATCTGAACCATTAAAGTCGAGCTTTTCTAAAGAA
AAAAAAAAAAAAA

1492/6881
FIGURE 1383

MASMRESDTGLWLHNKLGATDELWAPPSIASLLTAAVIDNIRLCFHGLSSAVKLKLLLGTLHLPRRTVDEMKGAL
MEIIQLASLSDPWVLMVADILKSFPDTGSLNLELEEQNPNVQDILGELREKVGECEASAMLPLECQYLNKNALT
TLAGPLTPPVKHFQLKRKPKSATLRAELLQKSTETAQQLKRSAGVPFHAKGRGLLRKMDTTTTPLKGIPKQAPFRS
PTAPSVFSPTGNRTPIPPSRTLLRKERGKLLDISELDMVGAGREAKRRRKTLD AEVVEKPAKEETVVENATPDY
AAGLVSTQKLGLNNEPALPSTSYLPSTPSVVPASSYIPSETPPAPSSREASRPPEEPSAPSPTLPAQFKQRAP
MYNSGLSPATPTPAAPTSP LPTTPPAVAPTTQTTPVAMVAPQTQAPAQQQPKKNLSLTREQMFAAQEMFKTANK
VTRPEKALILGFMAGSRENPCQEQGDVIQIKLSEHTEDLPKADGQGSTTMLVDTVFEMNYATGQWTRFKKYKPM
NVS

1493/6881

FIGURE 1384A

TCCCAGCCTGAAACCAACACATTTTCTAATAAGTTATTTAGACAGAATAGCACTCTGCATGACTTTAATTCTTGG
GACAAAACGGTAGTTTGTACCTAAGACACAGTTTCTGGCCCAGTGTGATGGGGGTGGGTGGCCGGGTGGGTGGA
GCGTTTTGCTGTTGGAAACCTGGAGGGAAACCTGATTGGATGTCATTTCTGCCATGGAGCACGCCCTCCAGCC
CTGGCCTGCAGGGTGGGCAGGGTGGGGGGCAAGGGAGTCCGCAGCCTCCGGGAGGAGGGGCAGGGCGCTGCCTTG
GGCTGGGTGGGAAGAGGGGTGGCCGCTCGGCTTCCGCTGGCCATGCTCCTGGTCTCTCCTTCTGAGGTACAG
GCAGGGGCTGCCCTGGACGGGGGGCGGGGGGGGTGGCCTGGAAGGGGAGACAGAGGTGGAGGGTGGCACAGGCTG
CACATTACAGCTTAGAAGTGGACCTGGCTTTGGTGGCAGGAGAAGAATAAACACTTGCCAGACCCCTTTGTGTGG
GGGAATTGGGGAGGGGTCTGGCAGGCAGGGTGGGCCACGGAAGTGGGTCCAGGCATCAAGGCCACGTGCAGGG
CCATGGAGGGATGCTTCTCACGAGGCGCTTCAAGCGAGCGAAGGGACAGAGAAGCCCTGCGTCCAAGGGCCTT
TTGTCTGTTAGCAATTGAGGTGTGCAGAGCACTGTACAGACCCCACTCCCCTGTACATTCTCCTGGAGGTGC
CCGGTCCCCGCTTGGGGATGGGAGTTTTGTAGACTGTACAGAAATCGGCACCCTATTTTCTTGCAGCTCAGATTT
TGTTAATCTGGAATATACAGACAGACGTAAAGTGTTTTAGCAAAATGGAAACAAACAGTTGTGCCTTTTCTCT
TTTGGTTTGGTTTGGGTTTGGCCTGGGGCTGGTCCCAGTTGGTGGGGGCATGCTGGGGGCAGGAGGGGCAGGGC
GGGCCAGGTGGAGTCAGGTCTTGGGGGTGTATGTCGGGGTGTGCCAGCGTCCCTTGGTCTGTGCCTTTGGAG
CCTCGGGCTCCTGGGGTGCAGGGTGTGGGGGTGGCTGTGGAGCCACCGACGCCAGGGCAGGGCCTGGAGGC
CCAGGGACTGCCAGTGTCTCCTTGATATTGATCCTAGCAGATCCCCCTCCTGGGGGTCTGAGAGTCTGGGCAG
TGTGGCCTTCTCTCATTCTGGTGGCATCTGCGCCCGTGAGTGACCTCTTCTTGGCTGCACTGCCCTGTGGGTGG
TGAGACGCTTGGCCTTTTTTGTGTGTGCCAGGACTTGGTAGAGATGGCAGGAAGGGTGTGCGGGGTGGTGTGTG
CAGAACCCTGCCGCCCTGAGGTGAGCAGAGGCACTGGTGTGTGCCAGGCTGGGGCGGAGCTGCCCGGAACCT
TGCCAGGCCAATGTGTAGCTTGGTGGCGCCCTTGAAGGCCACTGGGGGGTAGGTGTGTCTCCCCGGGGCTGGA
GGCCGGGTGCTGTGGTGGGTGGCCTGACCTGGCCCACTCATCCCTCCAGCCTGGGATCTCACTGCTCTGCACCT
GTGCACTGACGTGAATTTTATACGTTTGTAGAACTCTGATGTAACCTTCTTCTACCTCTGAAGCGCCCTCCTGGG
CCTGCTGTACAGTGGCTGGTGGCGCTTCCCCGAGTGCTGGCCCCCTGCCCGCTCCCCATGGGCACCCACCACTC
AAACTCTGCGTGTGTAGGCCCCGGGGAAGCCAGGCCGGGGCCCTAGCACTGCTCAGGGGCTGGGGCTCCTGGGAT
TTCTGTGTGTTTGAAGCCTCTGTTTTTGGAGTGGGGGGCTGGAAGCGGGAGGGGCTGACAGTGCCTGGGGCC
AGAGCTGGGCGAAGGAGGACATCCTCACTGGACGAGCACTGCAGGCCTGACGAGAGGCTCCGGGCAGCTGAGGGC
TGAAGCGCCTCGGGATGCCCCCACTGCCCAGAGCCACGGGTCTTGTGTGTGGGGGTGGGGTGGCCCCAGGCA
GCTGCCACTGCCAGGTGTGAGTCGCTGCAGACCTGGTCCCTGAGGGTGGGAGGCCTGCTTGTGTGAAGCTGCC
ATGTGGTCTGGCCCCCAGAAGGGCTCCTGAGCGTAGGGAGTTGAGCCCCGACCGTGGCGGCATCTCCTCCTCC
TTCTCCGCCCATGCCAGCCTTGCTTCCGGCTGGTGGCATGCCCTGGGGCCGGGCAGCAGGTGAGAAGCTGCC
CCCGGAGGGAGGGGGCCAAAGGCTGGGTGAGTCTGGCCTGAGGGGTGGATGGCTGGCCCTGGGGGAAGGCTGGGC
TGGGAGGCCCTGTGGACAGCAGGCCTGAGGCCACGAGGTCTGGGGCCACCCCTCTCTGCTCTGGGTGTCTCTC
TCAGAGAAGATGGCAGAAGGCTGCAGGCCCTAGAGGGGACGACGGGCTGGGGACGCCCTGAGCTTCTCTGGCTGTG
TGGCAGGTGCTGGGGAAGCTCTCTGGGCCATAGGGACCTGGCTCCCTCTGAGAGGCCCGCCTGCCCTGGGACAC
CCAGGGCTGTGCTGGTGGCCTGAGGCTGGGAAGTGGGTTCTTGGGCTCTGCTGGCGCTGGGCTTTGTGGGGC
CGAAGGTGGTTGCCCCGCCGGGCAGGGGGCTGTGTGGGCCCTCGTGGGGCCACCTTCTGTGAGTGGCCGAGGGA
CGGTGGGACAGTTGCCCTGCGCCAAGGGAGCCCACTGCCATCCCCCGTGGGCTGGCGCTGCAGTCGCGCACCTT
GTGTTGCCCTGCTGACTTGCTTATGTCTGTTTGAAGCTGCTTCTGTTTGGCCACAGGCCTGTGTTCTGGGCTGA
TGGCCACAGAGCTGACACTTGGGGTTTGAAGTCCAGACTTGACAGCCCTGGGATCCGCTTACTCCTCCGCGCCAC
GGCTGCTGTGCTTCCAGAGGTGGCGTGATGCCCTCCCGGGGCCACGTTGGGGTGAAGGATGGCGAGCCGGACATAC
CATTGTTGGATGTATTTTTTTTAAACAGCAATAATTAGCCATTTTAAAGGAGGGATGTACCTGTGTGTGTGCAT
GTGCACGTGTTTGGCGTGTGTGTGTGTGTGCAAGTGGGTTCTTGGATATGTGTAGTGTGAGCATGTGTGCATGT
GTGAGCCTGTGCACGTGCATGTTGTAGGTGCATAAGCATGTACACGCGTGAGCATGCATGTGCGTGTACACGTGT
ATAGGTGTACATGTGCATGAGTTGTGTACATGCGTGAGCAGCTGTATAGATGTACGTGTGTGTGCGCATGTGTGC
GTGTACATGTGTTTGTGTCTTGGGTATGCATAAGCATGCACGTGTGTATGAATGTGCGTGTGTATGCATGAGCAC
GTATGCATGTGTATGCGCATGTTCTTGTGTACTTCTCTGAGGGGGCACATATGTATGAGTGTATGAGTGCATAC
ATATGCATATGGTGTACGTGTGTGTACTTTGTGTGTGGGCATGTATGCGTATGAGTACTTGTGTGTGGCTGGTGT
ATGGGTGAGCATGCACATGTGTATGGATGCATATGTGAGCTGTACATGTAGAGTGTACATGTGTGTGTGCATGAGC

1494/6881

FIGURE 1384B

ATGCATGCGTGCGAGTGCCTGTGTGTGTACTTGCAATATATGTGGCTGTGCAGGTACCCGGCGGTGGTGGGCTGGC
AGTGCCCGGGGAAGCAGGTCCCTGCTCACGGCTTCCCTGCTGGGCCCCAGGCCCCGGGCTGAGCCTCCCTGGCCCC
TCTTGCCCCCTCAGTGGAGCAGGGCCTGGGTGGAGGGCCTGGGCAGCTCCAGGGCAGGTCCGGGGAGGCCAGGCTT
GGGGAGCACAGGGGGTGGGGTTCACCTGCTGCTGTTTGTTCGCGAACTGTACTGTGAGCCACGGCGGGGGCAG
ATTGTTCTGAGGCCCCAGATGTGCCAAAACAGCCCCAGGGTGGGGGCGAGCGAGTTCTGAGGAGAGGGGCTGCG
GGGGCCGGGGGTGGGTGTGTGCCCCCTCCCCTGAATGGCCCCCAATGCTGCTGTTTTCAATAAAACCAGAGTTGA
AGGC

1495/6881
FIGURE 1385

MSMHACECLCVYLHICGCAGTRRWAGSARGSRSCSRLPCWAPGPGLSLPGPSCPSVEQGLGGGPGQLQGRSGEA
RLGEHRGWGSPAAVCSRNCTVSPRRGQIVLRPQMCQNSPQGGGERVLRRGAAGAGGGCVPLP

1496/6881
FIGURE 1386

GAGGAGCTCTCCTGGGCGGCTGAAGAAGGAGCTTCTTCTCCGGAGTGCGAAGGCGGTGGCGCTGCGGACCTAAC
TAGCTCCAGGTTAGGCCGAGCTTTGCGGGAAAGCAGCGGACTTGAAAATACTGGAATCTGTCCGGATCCAAATT
ATTTTGCAAGCCAGATGAGTAACCAGAGGGCATGAAAGGTTGAGAACATTTGACTTCCCTGCAACCTTGGTATA
GATCACTTCTTTTCTGTAGGAAAGGAAAGGCACCAAGAGCACAATGAGTACAAGAAAGCGTCGTGGTGGAGCA
ATAAATTCTAGACAAGCTCAGAAGCGAACTCGGGAAGCAACCTCCACCCCGAGATCTCCTTGAAGCAGAACCC
ATAGAACTCGTGGAACTGCTGGAGATGAAATTGTGGACCTCACTTGTGAATCTTTAGAGCCTGTGGTGGTTGAT
CTGACTCACAATGACTCTGTTGTGATTGTTGACGAAAGAAGACCAAGGAGGAATGCTAGGAGGCTGCCCCAG
GACCATGCTGACAGCTGTGTGGTGGAGCTGACGATGAGGAGTTGTCCAGGGACAGAGACGTATATGTGACTACC
CATACTCCCAGAAACGCCAGGGATGAGGGCGCTACAGGCCTCAGGCCCTCAGGTACTGTGAGTTGTCCCATCTGC
ATGGACGGATACTCAGAGATCGTGCAGAATGGACGTCTCATCGTTTCCACAGAATGCGGCCATGTCTTCTGTAGC
CAGTGCCTCCGTGATTCCCTGAAGAATGCTAATACTTGCCCACTTGTAGGAAAAAGATCAACCACAAACGGTAC
CACCCCATTTATATATGAAGTATTGAGCCCCCAGGAGAGACGGATGGACAGACAGACAGCCAGGTTCTCCAG
TGGTATCTGCCTCCATTTTCTGAGATCAAAAAGACTGTTTCGAAACCAACATCTGATATGTAAGTCTCTTTT
GTTTCAACCCCTTCTTTTGTATCTCCAGTTTGTATGCTATGGCGCTGGACCCAGGGCCCTCCAGGCCATCTC
TGTTCTCTGGGGTGGTCCAGTTCTAGAGTGGGAGAAAGGAGTCAGGCGCATTGGGAATCGTGGTTCCAGTCTG
GTTGCAGAATCTGCACATTTGCCAAGAAATTTTCCCTGTTTGGAAAGTTTGGCCAGCTTTCCCGGGCACACCAC
CTTTTGTCCCAAGTGTCTGCCGGTCGACCAATCTGCCTGCCACACATTGACCAAGCCAGACCCGGTTCACCCAGC
TCGAGGATCCCAGGTTGAAGAGTGGCCCCCTTGAGGCCCTGGAAAGACCAATCACTGGACTTCTTCCCTTGAGAGT
CAGAGGTCACCCGTGATTCTGCCTGCACCTTATCATTGATCTGCAGTGATTTCTGCAAATCAAGAGAAACTCTGC
AGGGCACTCCCTGTTTCCTAAGAACGAAAAAGTGAATAAAGGCCATTGTTACCTACTTTTACGAGCCACA
AGATGTAGCACTATTAGTGTCCCCCTCAGAGGCTTAATGTTGCCTGTGGAGCAGTGGCCATCCCAGCCGTTTCT
GCCCACCAGTTGTTCTCAGGAACCTTACCCATGCTCCAGCGTCTTACCTGGCACAGGACATGCAAGATAAATA
GGGCAGGCACGTGTTTGGGTGTCCTCTCTTTCTGATAAAATCCATCCCGTGTTCGCCACACGCCCTCCAGTCTC
CAGTTCCTCACTGCCTAACGTCTGCCCCGTGTAGATACTGAGAGGTGGTGGCAGTAATTGTGGCCTTATCAGCCG
CTCAGTTCCAGGCTTTTGGCCAGGTCAGTGTGCCCCATGTTTCGGAGAACCTGGCCACCTGTCTTGGCTTTTCTC
ATCCTTCCCAACCCAGTGGCGTTTATTTCAGAAGCTTCTGCGCACTGGGCTTGGATGCTTCGGGCTTCTGACTG
CTCCATAGGTTTTGACTGGTGAAACAGGGGCCAGATGACAACCTCTCCTTCGCTCCACAGGTACGCGGGAGCCT
CAGGTTCTCTCAGGGGCAGCAAAGTGGCCCAAGCTGCCCTGACAGCACAGGGCCTGGGGGTGGCTAACGAGAGA
GGCCTTACAGTGCCGGCATGCCTCCTCTTCCACTGTCTGCTTCTCCTCAGAGGGCCTCACGCCAAACAAACGGCCT
TTTCGTGTGAAACATCTTCAGGGCGGAAAGGGGCCACTTCTGGCTTTGTTAGCAATAACTGACCTTCAGTTTAC
CCTTCTGAAGGAGCAGGGACTCAGCACAGAATTCACCTTAGACGGGGCTGAAGGAGTGTCCTCTCTATGTGAA
AAGAAAATTGTTTTATTCTTCACTTCTGACTTTTAACTGTTTGGCTCACTTCCAGTTAGTTTGAATGAAAAATAAT
AATTTTCTACTTGGAGTTGAAGAGGGCAGAATCCGCAGCTCTCATCATTGTGATGTGTAGCATGTCTGCCCTCTG
ACTGGACATCATTGCCATTAACTTTCTTCTGGGCATCACGGCAGTGTACGATGCCAGACTTGGAGCAAGGCAA
CCTTGGAGTCAGTCCACTCATAAAATATGGTAACACCCATTTTAAATTTAAGTTTGTCTTAAAGACAACCTC
AGTGGTTAATTATAAAAGTTGTGTTACTTCGTCCTAAATTAATTTGATAGAAAGATTTAAAAATGTGTTTGT
CTACTATTAGAAACTGCGAACTAGGGAAAGTTGGTATGAAAAATGTCTTCTTTTCAATGTACATAGTT
CAACTCTTTCTTTGTACATTTAACTATATCCATGGATATCAGTCTGCTTTGGACTCCTCTGCTAGTGTACAG
ATGGAAATAAAACCATTAAATTTGAACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

1497/6881
FIGURE 1387

MSTRKRRGGAINSRQAQKRTREATSTPEISLEAEPIELVETAGDEIVDLTCEPLEPVVVDLTHNDSVVIVDERRR
PRRNARRLPQDHADSCVVSSDDEELSRDRDVYVTTHTPRNARDEGATGLRPSGTVSCPICMDGYSEIVQNGRLIV
STECGHVFCSQCLRDSLKNANTCPTCRKKINHKRYHPIYI

1498/6881

FIGURE 1388A

CGGCGCGCTCGCCGGCCGAGGTGGGATCCCGAGGCCTCTCCAGTCCGCCGAGGGCGCACCACCGGCCCGTCTCGC
CCGCCGCGCCGGGGAGGTGGAGCACGAGCGCACGTGTTAGGAACCTAGAAAGATTGTACAATGAATGGTGATTCT
CGTGCTGCGGTGGTGACCTCACCACCCCCGACCACAGCCCCCTCACAAGGAGAGGTACTTCGACCGAGTAGATGAG
AACAACCCAGAGTACTTGAGGGAGAGGAACATGGCACCAGACCTTCGCCAGGACTTCAACATGATGGAGCAAAAG
AAGAGGGTGTCCATGATTCTGCAAAGCCCTGCTTTCTGTGAAGAATTGGAATCAATGATACAGGAGCAATTTAAG
AAGGGGAAGAACCCACAGGCCTATTGGCATTACAGCAGATTGCAGATTTTATGACCACGAATGTACCAAATGTC
TACCCAGCAGCTCCGCAAGGAGGGATGGCTGCCTTAAACATGAGTCTTGGTATGGTGACTCCTGTGAACGATCTT
AGAGGATCTGATTCTATTGCGTATGACAAAGGAGAGAAGTTATTACGGTGTAAATTGGCAGCGTTTTATAGACTA
GCAGATCTCTTTGGGTGGTCTCAGCTTATCTACAATCATATCACAAACCAGAGTGAACCTCCGAGCAGGAACACTTC
CTCATTGTCCCTTTTGGGCTTCTTTACAGTGAAGTGACTGCATCCAGTTTGGTTAAGATCAATCTACAAGGAGAT
ATAGTAGATCGTGGAAGCACTAATCTGGGAGTGAATCAGGCCGGCTTCACCTTACACTCTGCAATTTATGCTGCA
CGCCCGGACGTGAAGTGCGTCTGTCACATTACACCCCCAGCAGGGGCTGCGGTCTCTGCAATGAAATGTGGCCTC
TTGCCAATCTCCCCGAGGCGCTTTCCCTTGGAGAAGTGGCTTATCATGACTACCATGGCATTCTGGTTGATGAA
GAGGAAAAAGTTTTGATTGAGAAAAATCTGGGGCTTAAAGCAAGGTTCTTATTCTCCGGAACCATGGGCTCGTG
TCAGTTGGAGAGAGCGTTGAGGAGGCCTTCTATTACATCCATAACCTTGTGGTTGCCGTGTGAGATCCAGGTTTGA
ACTCTGGCCAGTGCAGGAGGACCAGACAACCTTAGTCCTGCTGAATCCTGAGAAGTACAAAGCCAAGTCCCGTTCC
CCAGGGTCTCCGGTAGGGGAAGGCACTGGATCGCCTCCCAAGTGGCAGATTGGTGAGCAGGAATTTGAAGCCCTC
ATGCGGATGCTCGATAATCTGGGCTACAGAACTGGCTACCTTATCGATACCCTGCTCTGAGAGAGAAGTCTAAA
AAATACAGCGATGTGGAGGTTCTGTAGTGTACAGGTTACTCCTTTGCTAGTGACGGTGATTCTGGGCACTTGC
TCCCCACTCAGACACAGTTTTTCAAGCAGCAGCGGGAGAAGACAAGATGGCTGAACCTCTGGCCGGGGCGACGAA
GCTTCCGAGGAAGGGCAGAATGGAAGCAGTCCCAAGTGAAGACTAAGTGGACTAAAGAGGATGGACATAGAAGT
TCCACCTCTGCTGTCCCTAACCTGTTTGTTCATTGAACACTAACCACAAAGAGGTCCAGGAGATGAGGAACAAG
ATCCGAGAGCAGAATTTACAGGACATTAAGACGGCTGGCCCTCAGTCCCAGGTTTTGTGTGGTGTAGTGATGGAC
AGGAGCCTCGTCCAGGGAGAGCTGGTGACGGCCTCCAAGGCCATCATTGAAAAGGAGTACCAGCCCCACGTCATT
GTGAGCACCACGGGCCCCAACCCCTTACCACACTCACAGACCGTGAGCTGGAGGAGTACCGCAGGGAGGTGGAG
AGGAAGCAGAAGGGCTGTGAAGAGAATCTGGACGAGGCTAGAGAACAGAAAGAAAGAGTCTCCAGACCAGCCT
GCGGTCCCCACCCGCTCCACAGCACTCCCATCAAGCTGGAGGAAGGAGACGGATGCGCTAGAGAGTACCTGTTA
CCCTAACCTTGTGCCGGAGCCGACTACTGGAGATGACAGTGATGTGCCACCTTTAAGCCAACCTCTCCCGATCT
GTCCCTGATGAACCTTCAAGCACTCGGCTTCCCAATGTTAGAGAAGGAGGAGGAAGCCCATAGACCCCAAG
CCCCACTGAGGCCCTACTGAGGCCAGCCCCGAGCCAGCCCCAGACCCAGCCCCGGTGGCTGAAGAGGCTGCCCC
CTCAGCTGTGAGGAGGGGGCCGCCGCGGACCCTGGCAGCGATGGGTCTCCAGGCAAGTCCCCGTCCAAAAGAA
GAAGAAGTTCGTACCCCGTCTTTCTGAAGAAGAGCAAGAAGAAGAGTGACTCCTGAAAGCCCTGCGCTAACAC
TGTCTGTCCGGAGCGACCTGGCTCTGCCAGCGTCCCCGGCCACGTCTGTGCTCTGTCTTGTGTAATGGAATG
CAAAAAAGCCAAGCCCTCCGCTAGAGGTCCCTCAGTGACCAGCCCCGTGTAGCCCCGGGCTGACCCAGTGTG
TGCTCAGCAGCCCCACCCACCTGCCCCCTGTCTCTCAGAGCCTCAGCTTCTGGGGGAGACATGCTCTCCCCA
CAGGGGGGAGGCACTAAGTCATGGTCTCTGGCTGGAAGGTACTGAAGGCTTCTGCAGCTTTGGCTGCACGTACCC
TCCTGAGCCTCACCTTTCTGCGTCCCTCCTGTTGTGAAATCACCAATTCTGTCTCTGCTTGGCTTCCCTCC
ACCCTAAAGTCTCAGGTGACGGACTCAGACTCCTGGCTTCATGTGGCATTCTCTCTGCTCAGTGATCTCACTTAA
ATCTATATACAAAGCCTTGGTCCCGTGAAAACACTCGTGTGCCACCAGCGGCCTTGAAGAGGCAGGTCTGGGCC
AGATGCTGGGCAGGAAACCCAGCGGCAGATGGGCCTGTGTGCACCCAACGTGATGCTATGCATGTCTGACCGAC
GATCCCTCGACCAGAATCAGATTCAGGAGCTCAGTTTTCTTTTCACTTGGGTCTCTGGATTCTGTCTATAGGGAA
GGTATATCAGGAGGGGAAGAGGCCTTCTAGAATTTCTTTGAGCAGGTTTACAATTTAGCTTACATTTTTTCGAC
TGTGAACGTGAATAGGCTGCTTTTTGCTTTCTTTCCAGACCCACAGTAGAGCACTTTTCACTTATTTGGGG
GAGGCTTCAGGGGACTGTTCTCACCTTAACCTAGCCAGAAAGATGCCCTAGTTGTGATCAAAGGTAACCTGAGGT
GGAGGGTAGCCCTGGGGCCCCTCGACATCACCGTACCTGATGGAGCCTGAACCGTGTGCTCCTCGGCAGATGCTG
TTGTTGTTACTTCCCTCCAAGAGGCTGGAAGGGCTCAGAGCTGCTGAGCAGGAACCGGAGGGTGACCCATTTC
AGGAGGTGCCGTACCAGCCTGACTAGGTACAGGCAAGCTTGTGTGGGCCCAACAGGCCCTTGGTAGAGCTGGTG
CCAGATGTGGGCTCAGATCCTGGGCATGATGGGCCGAGCCACCTCGGATCCCACTGATTGGCCAGCCGAGCGAGA

1499/6881

FIGURE 1388B

ACCAGGCTGCTGCATGGCACTGACCGCCGCTTCCAGCTTCCTCTGAGCCGCAGGGCCTGCTACGCGGGCAAGCGT
GCTGCCTCTCTTCTGTGTCGTTTTGTTGCCAAGGCAGAATGAAAAGTCCTTAACCGTGGACTCTTCCTTTATCCC
CTCCTTTACCCACATATGCAATGACTTTTAATTTTCACTTTGTAGTTTAATCCTTTGTATTACAACATGAAAT
ATAGTTGCATATATGGACACCGACTTGGGAGGACAGGTCCTGAATGTCCTTCTCCAGTGTAACATGTTTTACTC
ACAAATAAAATTCTTTCAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

1500/6881
FIGURE 1389

MNGDSRAAVVTSPPPTTAPHKERYFDRVDENNPEYLRERNMAPDLRQDFNMMEQKKRVSMILQSPAFCEELESMI
QEQFKKGKNPTGLLALQQIADFMTTNVNPVYPAAPQGGMAALNMSLGMVTPVNDLRGSDSIAYDKGEKLLRCKLA
AFYRLADLFGWSQLIYNHITTRVNSEQEHFLIVPFGLLYSEVTASSLVKINLQGDIVDRGSTNLGVNQAGFTLHS
AIYAARPDVKCVVHIHTPAGAAVSAMKCGLLPISPEALSLGEVAYHDYHGILVDEEEKVLIQKNLGPKSKVLILR
NHGLVSVGESVEEAFYYIHNLVVACEIQVRTLASAGGPDNLVLLNPEKYKAKSRSPGSPVGEGETGSPPKWQIGEQ
EFEALMRMLDNLGYRTGYPYRYPALREKSKKYS DVEVPASVTGYSFASDGDSGTCSPLRHSFQKQREKTRWLNS
GRGDEASEEGQNGSSPKSKTKWTKEDGHRTSISAVPNLFVPLNTPKEVQEMRNKIREQNLDIKTAGPQSQVLC
GVVMDRSLVQGELVTASKAIIKEYQPHVIVSTTGPNPFTTLTDRELEEYRREVERKQKGCEENLDEAREQKEKS
PPDQPAVPHPPPSTPIKLEEGDGCAREYLLP

1501/6881
FIGURE 1390A

CGGCGCGCTCGCCGGCCGAGGTGGGATCCCGAGGCCTCTCCAGTCCGCGAGGGCGCACCACCGGCCCTCTCGC
CCGCCGCGCCGGGGAGGTGGAGCACGAGCGCACGTGTTAGGAACCTAGAAAGATTGTACAATGAATGGTGATTCT
CGTGCTGCGGTGGTGACCTCACCACCCCCGACCACAGCCCCTCACAAAGGAGAGGTACTTCGACCGAGTAGATGAG
AACAACCCAGAGTACTTGAGGGAGAGGAACATGGCACCAGACCTTCGCCAGGACTTCAACATGATGGAGCAAAAG
AAGAGGGTGTCCATGATTCTGCAAAGCCCTGCTTTCTGTGAAGAATTGGAATCAATGATACAGGAGCAATTTAAG
AAGGGGAAGAACCCACAGGCCTATTGGCATTACAGCAGATTGCAGATTTTATGACCACGAATGTACCAAATGTC
TACCCAGCAGCTCCGCAAGGAGGGATGGCTGCCTTAAACATGAGTCTTGGTATGGTGAATCCTGTGAACGATCTT
AGAGGATCTGATTCTATTGCGTATGACAAAGGAGAGAAGTTATTACGGTGTAATTTGGCAGCGTTTTATAGACTA
GCAGATCTCTTTGGGTGGTCTCAGCTTATCTACAATCATATCACAAACCAGAGTGAATCCGAGCAGGAACACTTC
CTCATTGTCCCTTTTGGGCTTCTTTACAGTGAAGTGACTGCATCCAGTTTGGTTAAGATCAATCTACAAGGAGAT
ATAGTAGATCGTGGAAGCACTAATCTGGGAGTGAATCAGGCCGGCTTACCTTACACTCTGCAATTTATGCTGCA
CGCCCGGACGTGAAGTGCCTGTCGACATTACACCCAGCAGGGGCTGCGGTCTCTGCAATGAAATGTGGCCTC
TTGCCAATCTCCCCGAGGCGCTTCCCTTGGAGAAGTGGCTTATCATGACTACCATGGCATTCTGGTTGATGAA
GAGGAAAAAGTTTGGATTGAGAAAAATCTGGGGCTAAAAGCAAGGTTCTTATTCTCCGGAACCATGGGCTCGTG
TCAGTTGGAGAGAGCGTTGAGGAGGCCTTCTATTACATCCATAACCTTGTGGTTGCCTGTGAGATCCAGGTTGGA
ACTCTGGCCAGTGCAGGAGGACCAGACAACCTTAGTCCTGCTGAATCCTGAGAAGTACAAAGCCAAGTCCCGTTC
CCAGGGTCTCCGCTAGGGGAAGGCACTGGATCGCTCCCAAGTGGCAGATTGGTGAGCAGGAATTTGAAGCCCTC
ATGCGGATGCTCGATAATCTGGGCTACAGAACTGGCTACCTTATCGATACCTGCTCTGAGAGAGAAGTCTAAA
AAATACAGCGATGTGGAGGTTCTGCTAGTGTCACAGGTTACTCCTTTGCTAGTGACGGTGATTCTGGGCACTTGC
TCCCCACTCAGACACAGTTTTTCAGAAGCAGCAGCGGAGAGAAGACAAGATGGCTGAATCTGGCCGGGGCGACGAA
GCTTCCGAGGAAGGGCAGAATGGAAGCAGTCCCAAGTGAAGACTAAGGTGTGGACGAACATTACACAGCATCAC
GTGAAACCCTTGCTGCAGTCTCTCTGTCGGGTGTCTGCGTGCCAAGCTGTATTACCAACTGCTTGTGGACTAAA
GAGGATGGACATAGAATCTCCACCTCTGCTGTCCCTAACCTGTTTGTTCATTGAACACTAACCCAAAAGAGGTC
CAGGAGATGAGGAACAAGATCCGAGAGCAGAATTTACAGGACATTAAGACGGCTGGCCCTCAGTCCCAGGTTTTG
TGTGGTGTAGTGATGGACAGGAGCCTCGTCCAGGGAGAGCTGGTGACGGCCTCCAAGGCCATCATTGAAAAGGAG
TACCAGCCCCACGTCATTGTGAGCACCACGGGCCCCAACCCCTTACCACACTCACAGACCGTGAGCTGGAGGAG
TACCGCAGGGAGGTGGAGAGGAAGCAGAAGGGCTGTGAAGAGAATCTGGACGAGGCTAGAGAACAGAAAGAAAAG
AGTCCTCCAGACCAGCCTGCGGTCCCCACCCGCTCCAGCAGTCCCATCAAGCTGGAGGAAGACCTTGTGCCG
GAGCCGACTACTGGAGATGACAGTGTGCTGCCACCTTAAGCCAACTCTCCCCGATCTGTCCCTGATGAACCT
TCAGAAGCACTCGGCTTCCCAATGTTAGAGAAGGAGGAGGAAGCCATAGACCCCAAGCCCCACTGAGGCCCT
ACTGAGGCCAGCCCCGAGCCAGCCCCAGCCCCGCGGTGGCTGAAGAGGCTGCCCCCTCAGCTGTGAGGAG
GGGGCCGCGCGGACCCTGGCAGCGATGGGTCTCCAGGCAAGTCCCCGTCCAAAAAGAAAGAAAGTTCCGTACC
CCGTCTTTCTGAAGAAGAGCAAGAAGAAGAGTACTCTTGAAAGCCCTGCGCTAACACTGTCTGTCCGGAGCG
ACCCTGGCTCTGCCAGCGTCCCCGGCCACGTCTGTGCTCTGTCTTGTGTAATGGAATGCAAAAAAGCCAAGCCC
TCCGCTAGAGGTCCCCTCAGTGACCAGCCCCGTGTAGCCCCGGGCTGACCCAGTGTGTGCTCAGCAGCCCCAC
CCCACCTGCCCCCTGTCTCTCAGAGCCTCAGCTTCTGGGGGAGACATGCTCTCCCCACAGGGGGGAGGCACTA
AGTCATGGTCTGGCTGGAAGGTACTGAAGGCTTCTGCAGCTTTGGCTGCACGTACCCCTCCTGAGCCTCACCTT
TCCTGCCGTCCCTCCTGTTGTGAAATCACACATTCTGTCTGTGCTTGGCTTCCCTCCACCTAAAGTCTCAGG
TGACGGACTCAGACTCCTGGCTTCATGTGGCATTCTCTGTGCTCAGTGATCTCACTTAAATCTATATACAAAGCC
TTGGTCCCCTGAAAAACTCGTGTGCCACCCAGCGGCCCTGAAGAGGCAGGTCTGGGCCAGATGCTGGGCAGGAA
ACCCAGCGGCAGATGGGCCTGTGTGCACCCAACGTGATGCTATGCATGTCTGACCGACGATCCCTCGACCAGAA
TCAGATTACAGGATCAGTTTCTTTTCACTTGGGTCTCTGGATTCCGTGTCATAGGGAAGGTATATCAGGAGGGG
AAGAGGCCCTTTCTAGAAATTTTCTTTGAGCAGGTTTACAATTTAGCTTACATTTTTCGACTGTGAACGTGAATAGG
CTGCTTTTGTCTTTCTTTTCCAGACCCACAGTAGAGCACTTTTCACTTATTTGGGGGAGGCTTACGGGGACT
GTTCTACCTTAACCTCAGCCAGAAAGATGCCCTAGTTGTGATCAAAGGTAACCTGAGGTGGAGGGTAGCCCTGGG
GCCCTCGACATCACCGTCATTGATGGAGCCTGAACCGTGTGCTCCTCGGCAGATGCTGTTGTTGTACTTCCCT
CCAAGAGGCTGGAAGGGCTCAGAGCTGCTGAGCAGGAACCGGAGGGTGACCCATTTACAGGAGGTGCCGGTACC
AGCCTGACTAGGTACAGGCAAGCTTGTGTGGGCCCAACAGGCCCTTGGTAGAGCTGGTGCCAGATGTGGGCTCAG

1502/6881
FIGURE 1390B

ATCCTGGGCATGATGGGCCGAGCCACCTCGGATCCCACTGATTGGCCAGCCGAGCGAGAACCAGGCTGCTGCATG
GCACTGACCGCCGCTTCCAGCTTCCTCTGAGCCGCAGGGCCTGCTACGCGGGCAAGCGTGCTGCCTCTCTTCTGT
GTCGTTTTGTTGCCAAGGCAGAATGAAAAGTCCTTAACCGTGGACTCTTCCTTTATCCCCTCCTTTACCCACAT
ATGCAATGACTTTTAATTTTCACTTTTGTAGTTTAATCCTTTGTATTACAACATGAAATATAGTTGCATATATGG
ACACCGACTTGGGAGGACAGGTCCTGAATGTCCTTTCTCCAGTGTAACATGTTTTACTCACAATAAAATTCTTT
CAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

1503/6881

FIGURE 1391

MNGDSRAAVVTSPPPTTAPHKERYFDRVDENNPEYLREERNMAPDLRQDFNMMEQKKRVSMILQSPAFCEELESMI
QEQFKKGKNPTGLLALQQIADFM TTNVNVYPAAPQGGMAALNMSLGMVTPVNDLRGSDSIAYDKGEKLLRCKLA
AFYRLADLFGWSQLIYNHITRVNSEQEHFLIVPFGLLYSEVTASSLVKINLQGDIVDRGSTNLGVNQAGFTLHS
AIYAARPDVKCVVHIHTPAGAAVSAMKCGLLPISPEALSLGEVAYHDYHGILVDEEEKVLIQKNLGPKSKVLILR
NHGLVSVGESVEEAFYYIHNLVACEIQVRTLASAGGPDNLVLLNPEKYKAKSRSPGSPVGEGTGSPPKWQIGEQ
EFEALMRMLDNLGYRTGYPRYPALREKSKKYSDEVPASVTGYSFASDGDGSGTCSPLRHSFQKQOREKTRWLNS
GRGDEASEEGQNGSSPKSKTKVWTNITHDHVKPLLQSLSSGVCVPSCITNCLWTKEDGHRTSTSAVPNL FVPLNT
NPKEVQEMRNKIREQNLQDIKTAGPQSQVLCGVMDRSLVQGELVTASKAIEKEYQPHVIVSTTGPNPFTTLTD
RELEEYRREVERKQKGCEENLDEAREQKEKSPPDQPAVPHPPPSTPIKLEEDLVPEPTTGDDSDAATFKPTLPDL
SPDEPSEALGFPMLEKEEEEHRPPSPTEAPTEASPEPAPDPAPVAEEAAPSAVEEGAAADPGSDGSPGKSPSKKK
KKFRTPSFLKKS KKKSDS

1504/6881
FIGURE 1392

GCACGTGTCCTTAGGGTAGCGCGCGCCTGTCTCTCTTCGGGTCTCGGGCCCTTGGGCGCAGCGGGGCGCGGCCAT
GGCGAAGGCGAAGAAGGTCTGGGCGCGAAGGAAGGCCTCCGGGCGCCGGCGGGAGCGCGAGGGGGCCCGCGAA
GGCCAACTCCAATCCGTTTCGAGGTGAAAGTTAACAGGCAGAAGTTCCAGATCCTGGGCCGGAAGACGCGCCACGA
CGTGGGACTGCCCCGGGTGTCTCGCGCACGGGCCCTCAGGAAGCGTACACAGACTTTACTAAAAGAGTACAAAGA
AAGGGATAAATCCAATGTATTTCAGAGATAAACGCTTCGGAGAATACAACAGCAACATGAGCCCCGAGGAGAAGAT
GATGAAGAGGTTTGTCTGTGAACAGCAGCGACATCATGAGAAAAAAGCATCTACAATCTAAATGAAGATGAAGA
ATTGACTCATTATGGCCAGTCTTTGGCAGACATCGAGAAGCATAATGACATTGTGGACAGTGACAGCGATGCTGA
GGATCGAGGAACGTTGTCTGTCTGAGCTGACTGCTGCCCACTTTGGAGGAGGCGGTGGGCTCCTTCACAAGAAGAC
TCAACAGGAAGGCGAGGAGCGGGAGAAACCGAAGTCCCGGAAAGAGCTGATTGAAGAGCTCATTGCCAAGTCAAA
ACAAGAGAAGAGGAGAGACAAGCTCAACGAGAAGATGCCCTCGAGCTCACGGAGAAGCTAGACCAAGACTGGAA
AGAAATTCAGACTCTCCTGTCCCAAAAACCTCCCAAGTCAGAGAACAGAGACAAAAGGAAAAACCCAAGCCCGA
TGCATATGACATGATGGTTTCGCGAGCTTTGGCTTTGAAATGAAGGCGCAGCCCTCTAACAGGATGAAGACGGAGGC
AGAATTGGCAAAGGAAGAGCAGGAGCACCTCAGGAAGCTGGAGGCTGAGAGACTTCGAAGAATGCTTGGAAAGGA
TGAGGATGAAAAATGTTAAGAAACCAAAACATATGTCAGCAGATGATCTGAATGATGGCTTCGTGCTAGATAAAGA
TGACAGGCGTTTGTCTTCTACAAAGATGGAAAGATGAATGTGAGGAAGATGTCCAGGAAGAGCAAAGCAAGGA
AGCCAGTGACCTGAGAGCAACGAGGAAGAAGGTGACAGTTGAGGCGGGGAGGACACAGAGGAGAGCGACAGCCC
AGATAGCCACTTGACCTGGAATCCAACGTGGAGAGTGAGGAAGAAAACGAGAAGCCAGCAAAAGAGCAGAGGCA
GACTCCTGGGAAAGGGTTGATAAGCGCAAGGAAAGAGCTGGAAAAGCTACCAGAGACGAGCTGCCCTACACGTT
CGCAGCCCCCTGAATCCTATGAGGAAGTGAAGTCTCTGTTGTTAGGAAGATCGATGGAAGAGCAGCTTTTGGTGGT
GGAGAGAATTCAGAAGTGCAACCACCCGAGTCTCGCAGAAGGAAACAAAGCAAAATTAGAAAACTGTTTGGCTT
TCTTTTGGAAATACGTTGGCGATTGGCTACAGATGACCCACCAGACCTCACAGTCATTGATAAGTTGGTTGTGCA
CTTATATCATCTTTGCCAGATGTTTCTGAATCTGCAAGTGACGCTATCAAATTTGTTCTCCGAGATGCGATGCA
TGAGATGGAAGAAATGATTGAGACCAAGGCCGGGCGGCATTGCCAGGGTTGATGTGCTCATTATTTGAAAT
CACTGGGCTGCTATTTCCAACTTCCGACTTCTGGCACCCAGTGGTGACCCCTGCCCTCGTGTGCTGCCTGTTCTGGAGTA
GCTCACCAAGTGCCCATCCTGTCCCTCCAGGACGTGGTGAAGGGCCTGTTGCTGTGCTGCCTGTTCTGGAGTA
TGTTGGCTTTGTCCCAGAGGTTTATACCTGAGCTTATTAATTTTCTTCTTGGGATTCTTTACATAGCAACTCCAAA
CAAAGCAAGCCAAGGTTCCACTCTGGTGCACCCCTTTAGAGCGCTTGGGAAGAACTCGGAACCTGCTCGTGGTGTG
TGCTAGAGAGGATGTGGCCACGTGGCAGCAGAGCAGCCTCTCCCTCCGCTGGGCGAGTAGACTGAGGGCCCCAAC
TTCGACAGAGGCCAATCACATCCGACTGTCTGCTGGCTGTGGGCTGCTGAGCGCTGCGTGCTCAT
GTACGGGTCCCTGCCATCCTTCCACGCCATCATGGGGCTCTCCAAGCCCTCCTCACGGATCACCTGGCGGACTG
CAGCCACCCGCGAGGAGCTCCAGGAGCTGTGTGAGAGCACACTGACCGAAATGGAAGCCAGAAGCAGCTCTGCCG
GCCGCTGACCTGTGAGAAGAGCAAGCCTGTCCCACTGAAGCTTTTACACCCCGGCTGGTCAAAGTCTCGAGTT
TGGAAAGAAAACAAGGCAGTAGTAAGGAGGAACAGGAAGGAAGAGGCTGATCCACAAACACAAGCGTGAATTTAA
AGGGGCCGTTTCGAGAAATCCGCAAGGACAATCAGTTCTTGGCGAGGATGCAACTCTCAGAAATCATGGAACGGGA
TGCGGAAAGAAAGCGGAAAGTAAAGCAGCTTTTAAACAGCCTGGCTACACAGGAAGGCGAATGGAAGGCTCTGAA
GAGGAAAAAGTTCAAAAAATAAATTACATTTTATAAATAAGGCAAGGAAGTGGACATTACCTCACATCTGCAATT
CCAACCTCTGGGAGGCCAAGGCAGGAAGATTGCTTCAGCCAGGAGTTTCAGAGACCAGCCTGGGCAACACAGGAA
GACCCCGTCTCTACCAAAAAACATAAAAAATTAGCCAAGTGTGGTGGCACGCACCTGTAGTCCCAACTACTCGGG
AGGCTGAAGCAGGAGGACTGCTTGAGCTGAGTCCAAGGTTACAGTGAGCCGTGATTGAGCCACTGCACTCCAGCC
TCGGCCACAGTGCAAGACTGTGTGCTTAAAAAAAATTTTTTTTTTGGAGACGGAGTTTTGCTCTGTGTGCCCA
GGCTGGAGTGCAATGGCACAACTCCACCTCCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGG
GATTACAGACATGTGCCACCACGCCCAGCTAATTTGTATTTTTAGTAGAGACGGGTTTTCTCCATGTTGGTCAG
GCTGGTCTCGAATTCCTGACCTCAGGTAATCCACCTGCCTTGGCCCCCAATTATAGGTGTGAGCCACAGCACC
AGCCAAAAAGTAATTTTTTTTAGAGTAATAATGCTATAATGTTGGTGTGATTCCAACCTCCAGCTCCCCCACC
CGCTGCCCTGCGGTTTTGTTTTCTGTTAAACGTCACCTGATGAAATAGAATGAATCCTGAAATGCACCTCTGGGAT
CGGGAATGGTCTGTGTGTTATCAGCTGCGACTGGTTCACTGCGTCTGGACAAGCCTCATGGGGACTGGGGATTCT
GGCCAGTGTAATTTCTGTCAACCACGGAGCTTTGCCCTCATGTGTAGAATTTACTGTTGTATGCAATTATATT
TTCAATTATAAATG

1505/6881
FIGURE 1393

MAKAKKVGARRKASGAPAGARGGPAKANSNPFEVKVNROKFQILGRKTRHDVGLPGVSRARALRKRTQTLLKEYK
ERDKSNVFRDKRFGGEYNSNMSPEEKMMKRFALEQQRHHEKKS IYNLNEDEELTHYGQSLADIEKHNDIVSDSDA
EDRGTLAELTAAHFGGGGGLLHKKTQEGEEREKPKSRKELIEELIAKSKQEKREERQAQREDALELTEKLDQDW
KEIQTLLSHKTPKSENDRDKKEKPKPDAYDMMVRELGFEMKAQPSNRMKTEAELAKEEQEHLRKLAEERLRMLGK
DEDENVKKPKHMSADDLNDGFVLDKDDRLLSYKDGKMNVEEDVQEEQSKEASDPESNEEGDSSGGEDTEESDS
PDSHLDLESNVESEENEKPAKEQRQTPGKGLISGKERAGKATRDDELPTFAAPESYEELRSLLLGRSMEEQLLV
VERIQKCNHPSLAEGNKAKLEKLFGLLEYVGDLATDDPPDLTVIDKLVVHLYHLCQMFPEASDAIKFVLRDAM
HEMEEMIETKGRAALPGLDVLIIYKITGLLFPTSDFWHPVVTALVCLSQLLTCPILSLQDVVKGLFVCCLFLE
YVALSQRFIPELINFLLGILYIATPNKASQGSTLVHPFRALGKNSSELLVVSAREDVATWQSSLSLRWASRLRAP
TSTEANHIRLSCLAVGLALLKRCVLMYGS LPSFHAIMGPLQALLTDHLADC SHPQELQELCQSTLT EMESQKQLC
RPLTCEKSKPVPLKLF TPRLVKVFLEFGRKQGSKEEQERKRLIHKHKREFKGAVREIRKDNQFLARMQLSEIMER
DAERKRKVKQLFNSLATQEGEWKALKRKKFKK

1506/6881
FIGURE 1394A

CCCTCCGGCTCGGCGAAGCAGGGAAGGGGAGAGAAGCAGGAGTCGGGAGACTGCACAGGCCAGAAAGTCTGCGGA
GCGGGCCGCGCCCTGGCCCGCCGGGCTCCAAGTCCCGCGTCGCCGCCCTGGCGGGGACGGTGCAGCAGGCGGC
GGGATGCGGGCGGGGCGGCAGCCTGAGCGCCCCGGATGGCCCGCGGGGGCGGCCTGCAAGAGCGACGCGCGGCT
GCTGCTGGGGCGGGACGCGCTGCGGCCGGCGCCCGCCCTGCTGGCCCCCGCGTGCTGCTGGGCGCCGCGCTCGG
CCTCGGCCTCGGCCTTTGGCTTGCTGCGCGCGGGCCGCCAGCGCACGCGACACCAGAAAGACGACACTCAAAA
TCTGCTCAAGAATTTGGAGTCTAATGCGCAGACCCCTCGGAAACTGGCTCCCCATCAAGGAGGAGGAAGAGAGA
AGTGCAGATGTGGAAGACAAGGAAGCTGTTGATGAATGTGAGCCGCTTCCAACAGCAATATCACAGCATTTCG
CCTGAAGGCCAAAAGTCATCTACCCCATCAATCAGAAGTTCGGGCCTCTGGCCGATGGCTCCTCCAACCCGTCTCT
GCATGAAAACCTTAAAGCAGGCTGTTTTGCCACACCAGCCGCTAGAGGCCTCTCCTTCCAGCAGTCTGGGGAGCCT
GAGCCAGGGTGAGAAGGACGACTGCAGCTCCTCATCCAGCGTCCACTCGGCCACCAGCGATGACAGGTTTCTCAG
CCGCACCTTCTCCGGGTGAACGCCTTCCCTGAAGTGCTGGCCTGCGAGAGTGTAGACGTTGACCTGTGTATCTA
CAGCCTTCACTTAAAAGACCTGCTGCATTGAGACCGGCACTGAGGCAGGAAAAGCATATGATGTTTTATTTCAGAT
TTTTAAATGTGCTCCTTGACCTTCTTCTTAAAGAAAGTCAAGTATGATGAATTATACCAGAAGATCCTTTCAA
ACAAGAAAAGATTTGGAGGAAGTAAAGGGGACTTCAGGTCAAACTGTCAAACACAGAAATGTCGGGGGCTGG
TGACTCTGAGTACATCACCTGGCTGATGTGGAAGAAAGAGAGAGAATACTCTGAACAGCTAATCGATAATAT
GGAAGCTTTCTGGAACAGATGGCAAATATCCAGCACTTCTTGTGGACAGTTTAAAGTGTTCAGCTCCAAAGC
CCGACAGCTGATGATGACTCTGACGGAAGAATGATTGCAGCCGAAGGGCTATTGTGCGATTCTCAGGAGCTGCA
GGCTCTGGACGCCCTGGAGAGGACGATGGGGCGGGCGCACATGGCAAAGTGATTGAGTTTCTGAAGCTGCAAGT
CCAGGAGGAGACCAGGTGCCGGCTGGCTGCCATCTCCACGGCTGGAGCTGCTGGCTGGTGAGGGGAAGCTGTCT
CGGGCGGCAGAAGGAGGAGCTGCTCACGCAGCAGCACAAAGCCCTTCTGGCAGGAGGCAGAGCGCTTCAGCCGGGA
GTTTGTCCAGCGAGGCAAAGACCTGGTCACGGCGTCTCTGGCTCACCAGGTGGAGGGAACGGCAAACTCACGCT
GGCCCAAGAGGAGGAACAGAGAAGCTTCTGGCTGAGGCCAGCCGACTGCTGACCCGAAAAGTTTCTCGAGGC
TTTTCATGAGGTCTTGAGAGGCAGAGGCTGATGCACTGTGACCTGGAGGAAGAGGAGAATGTGAGAGCCACCGA
GGCTGTGGTTGCACTCTGCCAGGAGCTGTACTTCAGCACCGTGGACACTTTCAGAAAGTTCGTGGATGCCCTGTT
CCTTCAGACGCTCCCTGGCATGACTGGCCTCCCCCGGAAGAGTGTGACTACTTGAGGCAGGAAGTCCAGGAGAA
CGCTGCCCTGGCAGCTGGGGAAGTCAAATCGCTTCCGAGGCAGCAGTGGAACTCTTCCAGGAGCTCTTAGAGCA
AGACCAGCAGGTGTGGATGGAGAGTGTGCGCTGTCCAGCGTGTGTCAGACACACCTGCGGGAGGACCACGAGGG
CACCATCCGCGGCGTCTTGGGCGGACTGGGCGGCTCACTGAAGAGTCCACGCGGTGTGCTCTGCAGGGGCATGA
CCTGCTGTTGCGCTCAGCCCTCCGAGGCTGGCACTCCGCGGCAACGCCCTGGCCACCCTGACGCAGATGCGGCT
ATCGGGGAAGAAGCACCTCTGCAGGAGCTGCGGGAACAGCGTGCAGTGGAGCAGGGGTCTCCAGTGCCTGGA
CGAGCATCAGTGGCAGCTGCTCAGGGCCCTGGAGGCGGTGTGCTGGAGGAGGCCAGCCGGCTAGAGGAGGAAGC
ACAGCAGACACGGCTGCAGTCCAGCAGCGGCTCTTGCCGAGGCCCCAGGAGGTGGGGCAGCTTCTGCAGCAGCA
CATGGAGTGCGCCATTGGGCAGGCGCTGCTGGTGCATGCACGGAATGCAGCCACCAAGAGCCGGCCAAGGACAG
GGATGACTTCAAGAGGACACTGATGGAGGCGGCACTGGAGAGCGTCTACGTGACCAGCGCTGGTGTACGCCGCT
GGTGCAAGGCTATTACAGCAAATCGGAAGGATCATGGAGGACCAGAGGAGAGAAAAGTGCAGCACCTGAAGAC
CCTGCAGGGTGAGAGGATGGAAAATTACAACTGCGGAAAAGCAAGAACTCAGCAACCCTTCGTGCGGCAGCAG
GACGGCAGGTGGCGCTCATGAGACCTCCAGGCGGTCCACCAGAGGATGCTGTCCAGCAGAAGAGGTTCTTGGC
CCAGTTCACAGTGCACCAGCAGATGCGTCTGCACGCCCAGCAGCAGCAGGAGGAGTGCATGGACCTTCTGGAAGC
CCAGCTGGAGACCCAGCTACAGGAAGCTGAACAGAACTTCACTCTCCAGCTGGCAGCCTTGGCCCGAGTGCCCT
TGCTGAAAGCAAAGTGTGCTGCTAAGCGTGGGCTGCTAGAGAAGCCCTAAGGACTAAAAGGAAGAAGCCCT
GCCCCAGGAAAGAGGGGACCTGGGGGTGCCCAACAATGAGGACCTTGCCTCCGGGGACCAGACCTCAGGCTCACT
CAGCAGCAAAAGGCTGAGTCAGCAAGAAAGTGAAGCTGGGGACAGTGGGAAGTCAAAGAAGATGCTAAAGAGAAG
AAGCAACTTGTAGTTTAAAGACCAGTCCGTGGGACAAGACCTGAAGCCCTGGGTCTGGGTGTGAATTCCACCTTCC
CTCCTGCAGTGTGAGAGGCAGCGAGGACGAGAGGACAGCGGCATCTCTAGGCTCTTCTGAGAGGGACAGAGAA
AGAATAGAAATGTGCCCTAAAAGCATAAATGAGTATCACCTGAGAAAATTAGGCATTCCCGTCTTGAAAACACGT
CTCTGTGAGTTTGCAATTTCAATTTGGCTTGAGGCCCTGGCTCGATGCCTCATGGATCTTTCTCCCAAGGAGGGAC
GTCTTGAGGGGTCCGAGCCTCAGGCCAAGGACCCCTGATGCAGACTCTGGAATCCCTGGCCCAAGGCCTGTCTG
GGCCATCTGGGGCTGAGGACACACAGATACATAATGACACCTGCAGAAATGTATTCTCTGAGGACACTTAGAAT

1507/6881
FIGURE 1394B

ATGAGGAAGAGGGTGTGGCCCAACCCCTCACTTCACCTGGGGAGGGGCTTCTTCCGGACAGTAGACACCCTGCCCC
TGCAGAGAGATGTCATGGGGGCACCTGCTCTCCCTGATAGATGCTGAGAGCATCCAGAACTTCCAGACCAGCCC
TCTCACCACACCCAGAAGAGGCCCTTTCCCATCTGGAGAGAAGCTTCCAGACCAGCCCTTCACACACCACAGCCAG
GAGGGGCCCTTTCCCACTGGAGAGAACTTCCAGACCAGCCCTCATACCACAGCCAAGAGGGGCCCTTTCTCACC
TGGAGAGAAATTTCCAGACCATCCCTCTCACCACAGCCAGGAGAGGCCTTTCCACCGGTAGAGAACTTCCAG
ACCAGCCCCCTCACACCACAGCCAAGAGAAGCCTTTCCAGCCTGGAGAGAACTTCCAGACCAGCCCTCTCACTAC
AGCCAGGAGAGGCCTTTCCCGCCTGGAACTTCCGGACAAGCCTCTCACACACCACAGCCAGGAGAGGCCTTTCC
CACCTGGACAGAACTTCCAGACCAGCCCTCTCACCACAGCCAGGAGAGGCCTTTACCACCTGGAGAGAAGCTT
CCAGACCAGCCCCCTCACACCACAGCCAGGAGAGGCCTTTCCACCTGGAGAGAACTTCCAGACCAGCCCTCAT
ACCACAGCCAAGAGGGGCCCTTTCTCACTGGAGAGAACTTCCAGACCAGCCCTCACACCACCGCCAGGAGAGG
CCTTTCCACCGGGAGAGAACTTCCAGACCAGCCCTCACACCACAGCCAGGAGAGGCCTTTCCACCGGGAGA
GAACTTCCAGACCAGCCCTCTCACTACAGCCAGAAGAGGCCTTTCCACCGGGAGAGGAATTTCCAGACCAGCC
CCTCACACCACAGCCAGGAGAGGCCTTTCCCGCCTGGAGAGAAGCTTCAGGCCAGCTCTCACACCACAGCCAGG
AGAGACCTTTTCTGCCTGGAGAGAACTTTAGACCAGCCCCACACACCACAGCCAGGAGAGGCCTTCTCTGCCT
GGAGAGAAGCTTCCAGACCAGCCCTTCACACCACAGCCAGGAGAGGCCTTTCCACCTGGAGAGAACTTCCAGA
CCAGCCCCCTCTCACCACAGCCAGGAGAGGCCTTTCCACCTGGAGGGAAAATTGCTCCTTGATGGAGGTTAGGG
ACTGTACCCCTCAGCACTGTGAACATAACGGGCGAGATCATTCTTCAGGGGAAGGAGCTGCCAGAGCATCACAG
GATGTTCCAGTGTCCCTGGTCTCTGCCCACAGATGCCAGCACTCCCACTTCGTGGCAACCAAGGATGTCTCC
AGACACTGCCCCGTGTCCATGGGGTTATCACCACTGTGCTGAGTCAAAGGCTGCCTTGCCCTGGTCTAATCCAG
GACATAGCCGTGGATACGTCCAAAAATCCCCAGAACCCTAGTGAGCCCTCTGGCTCTGGGAGCCCCCTATCTCAGGA
ATTTTCAGGGTCAATTTGTGACTTTTCATTTCTTAAACCTGAAATAGACTCTCTTAGAAACAAGTGACTCCTTCC
CAGTGGCCAAAACCTTAATCATCAGAGCGCTTCCTTCAGTTCCTCACCACATCAGCCAGTGGGCTCTCCAAAGTTAA
CCAACAGCTCCCTCTTGTGGTTCATAAAAACTTGGTTATTCCATGGAGTTGTGCAAAGCTATGGCTTCCTTGG
TGCAATATTCTTAAACCTGCTTTGTCATAGAAATCACTTTTGCCAGGCTGGAGTGCAGTGGCGTGATCTCGGCT
CATGGCAATCTCCATCTCCCGGGTTCAAGCGATTTTCTGCCTCAGCCTCCCCAGTAGCTGGGACTACAGACGTG
TGCCACCACGCTGGCTAAATCTTTTTGTATTTTATTTAGTAGAGCGGGTTTACCATACTGGCCAGGCTG
CTCTCGAATCCTGACCTCATCGTCCACCTGCCTCGGCTCCCCAAAGTGCTGAGATTAGCGGTTAGCCACCGCG
CCCGGCCAGAAATCACTTTTATATTGTCATGCGCCCTCTGCAGCACCATAATTGGTTCGGTTACCCTGAGCCCAGAG
CTCTGAAAGCATCTGTGGAATGATCAGGGGACCCTTCTCCTCTGAGAAGGCTCCCGGCTGCCTCCCGCCACCGGA
GCTTGTAGCCTGAATGCCTGGCTGTGCGATGGAGCAATTTTGCTTCTGGGGTGCTTCTCTTAGCCAAAGGGAACGT
GTCAATTTGCTCGACCTGGCCACCCTTGCCGCGCAGCTGTTGTGCTGGGCACAGTCTGGGGCACAGGCCTCCAT
GATGAAGACGCGTGGGCTGTGCGTCTTCATCCGTCAAACTGGCACCTGTACCTGCCAGCAGGAGCATGATG
GGGACTTCCATGCTGGAATTGCTCCCTGATTAAATGAGATATGGCTATTGGAAGACACTGCATTTTAGCCAGT
GTACCTGGGCACAGACTCGGGGCTGCCCTGAAGCTGATGAAGGCTTGAAGGACGGAAGGGCTGAGCCACATGAAG
GCAGCACTCAGGGCCAGGGGAGAGAGAAGAGGATCAGCAGTGCAGCCCCAGGATGCCTCGCAGACGTGCCTTCTG
CCATGATTGTGAAGTTCTAGCCACGTGGAACCTCTCTCGGAAGAAGTGGTTGTTAAAGAGCACCTCTGCCTTCTTC
CTCTGTTGCCATGTGATCTCTGCAACGCTAGCTCTCCTTCGCCTTCTGCCATGCTGGAAGTAGCCTGAGGCCCT
CACCAGAAGCAGACGCTGGCACCCTGCTGCTTGTACAGCCTGCAGAGCCGTGAGCCAAGTAAACCTCTTTAATTA
CCAGCCTCAGGTGCTCCGGGAACGCTTCCGCGGAATGAAGCGGCCCATGCCCTTGTTGACGTTGATGTTTCCG
TCTTCAAAGACGATCTTGCCCTGGCTGATGACCACTAGTGGGGAGCCGTGGCACTCCATACCCCTGAAGATGTTG
TACTCCACCGCCTGCACCAACAGCCTCAGCGTTACTTCCAGGATTTGCTCTGCCCCAAACGAGCTGTTTATAAC
AGCGATTTTGCTTAACATATATATATAAGCGTGTTTCAATGTTTTTTTTTCTCTTAAAAATACCTTTTATTGAC
TGTAATATTCCACTGTATGGTCCACAGTGTATATAACCAACAACTCACCGTTGCGCATGTAGGCTGCCGGTGGCT
TTCTATAATCAAATCAATATTGTTCTGGGSCATCACAAGAGGAAGGGGGTCCCCXGGGGTTATGCAATGTGGC
TGCTTTGACTGTACTGGACATAAAAAATAAGTAAATGTTCTTCATTTTACTTAAATGTGTCTTTAAATAAAATT
TTTTCTCTAGGTT

1508/6881
FIGURE 1395

MARGGAACKSDARLLLGRDALRPAPALLAPAVLLGAALGLGLGLWLGCRAQRQRTRHQKDDTQNLKKNLESNAQT
PSETGSPSRRRKREVQMSKDKEAVDECEPPSNSNITAFALKAKVIYPINQKFRPLADGSSNPSLHENLKQAVLPH
QPVEASPSSSLGSLSQGEKDDCSSSSSVHSATSDDRFLSRTFLRVNAFPEVLACESVDVDLCIYSLHLKDLLHLD
TALRQEKHMMFIQIFKMCLLDLLPKKSDDELYQKILSKQEKDLEELEKGLQVKLSNTEMSGAGDSEYITLADVE
KKEREYSEQLIDNMEAFWKQMANIQHFLVDQFKCSSSKARQLMMTLTERMIAAEGLLCDSQELQALDALERTMGR
AHMAKVIEFLKLQVQEETRCRLAAISHGLELLAGEGKLSGRQKEELLTQQHKAFWQEAERFSREFVQRGKDLVTA
SLAHQVEGTAKLTLAQEEEQRSFLAEAQPTADPEKFLEAFHEVLERQRLMQCDLEEEENVRATEAVVALCQELYF
STVDTFQKFVDALFLQTLPGMTGLPPEECDYLQREVQENAAWQLGKSNRFRQWKLQELLEQDQVWMEECAL
SSVLQTHLREDHEGTIRGVLGRLGGLTEESTRCVLQGHDLRLSALRRALRGNALATLTQMRLSGKKHLLQELR
EQRALEQGSSQCLDEHQWQLLRALRARVLEEASRLEEEAQQTRLQQLQRLLAEAQEVGQLLQQHMECAIGQALLV
HARNAATKSRKDRDDFKRTLMEAAVESVYVTSAGVSRLVQAYYQQIGRIMEDHEERKLQHLKTLQGERMENYKL
RKKQELSNPSSGSRTAGGAHETSQAVHQRMLSQQKRFLAQFPVHQQMRHAQQQQAGVMDLLEAQLETQLQEAEO
NFISELAALARVPLAESKLLPAKRGLEKPLRTKRKKPLPQERGD LGVPNNEDLASGDQTSGLSSSKRLSQESE
AGDSGNSKKMLKRRSNL

1509/6881
FIGURE 1396

CCGATCCGGGCGGTGCTGGCAGCCGGAGCGGCGGGCGGGCGGGCCGAGCAGCCGGGGCAGCCGCGCTGGGCATCC
ACGGGCGCCGAGCCTCCGTCCGTGTCTCTATCCCTCCCGGGCCTTGTTCAGCGCGCCGCTGGGAGCGGGCCGA
GAGCGCCGTTTCCAGTCAGACAGCCCCGAGGTCAGCGGCGGGCCGAGGGGCCAGAGGGGGCCATGTCGTTACC
AGGGCAAGAAGAGCATCCCGCACATCACGAGTGACCGACTCCTCATCAAAGGTGGACGGATCATCAACGATGACC
AATCCCTTTATGCTGACGTCTACCTGGAGGATGGACTTATCAAACAAATAGGAGAGAACTTAATCGTTCCTGGTG
GAGTGAAGACCATTGAAGCCAACGGGCGGATGGTTATCCCGGAGGTATTGATGTCAACACGTACCTGCAGAAGC
CCTCCCAGGGGATGACTGCGGCTGATGACTTCTTCCAAGGGACCAGGGCGGCACTGGTGGGCGGGACCACGATGA
TCATTGACCATGTTGTTCCCTGAACCTGGGTCCAGCCTACTGACCTCTTTCGAGAAGTGGCACGAAGCAGCTGACA
CCAAATCCTGCTGTGATTACTCCCTCCACGTGGACATCACAAGCTGGTACGATGGCGTTCGGGAGGAGCTGGAGG
TGCTGGTGCAGGACAAAGGCGTCAATTCCCTTCCAAGTCTACATGGCCTATAAGGATGTCTACCAAATGTCCGACA
GCCAGCTCTATGAAGCCTTTACCTTCCTTAAGGGCCTGGGAGCTGTGATCTTGGTCCATGCAGAAAATGGAGATT
TGATAGCTCAGGAACAAAGCGGATCCTGGAGATGGGCATCACGGGTCCCGAGGGCCATGCCCTGAGCAGACCTG
AAGAGCTGGAGGCCGAGGCGGTGTTCCGGGCCATCACCATTGCGGGCCGGATCAACTGCCCTGTGTACATCACCA
AGGTCATGAGCAAGAGTGCAGCCGACATCATCGCTCTGGCCAGGAAGAAAGGGCCCCTAGTTTTTGGAGAGCCCA
TTGCCGCCAGCCTGGGGACCGATGGCACCCATTACTGGAGCAAGAACTGGGCCAAGGCTGCGGCGTTCGTGACTT
CCCCCTCCCTGAGCCCGGACCTACCACGCCCCGACTACTTGACCTCCCTACTGGCCTGTGGGGACTTGCAGGTCA
CAGGCAGCGGCCACTGTCCCTACAGCACTGCCCAGAAGGCGGTGGGCAAGGACAACCTTTACCTGATCCCCGAGG
GTGTCAACGGGATAGAGGAGCGGATGACGGTCTGTGGGACAAGGCGGTGGCTACTGGCAAAATGGATGAGAACC
AGTTTGTGCTGTACCAGCACCAATGCAGCCAAGATCTTTAACTGTACCCAAGGAAAGGGCGGATTGCCGTGG
GCTCGGATGCCGACGTGGTCACTTGGGACCCCCGACAAGTTGAAGACCATAACAGCCAAAAGTCACAAGTCGGCGG
TGGAGTACAACATCTTCGAGGGTATGGAGTGCCACGGTCCCCACTAGTGGTCATCAGCCAGGGCAAGATCGTCT
TTGAAGACGGAAACATCAACGTCAACAAGGGCATGGGCCGCTTCATTCCGCGGAAGGCGTTCCCGGAGCACCTGT
ACCAGCGCGTCAAAATCAGGAATAAGGTTTTTGGATTGCAAGGGGTTTTCCAGGGGCATGTATGACGGTCTGTGT
ACGAGGTACCAGCTACACCCAAATATGCAACTCCCGCTCCTTCAGCCAAATCTTCGCCTTCTAAACACCAGCCCC
CACCCATCAGAAACCTCCACAGTCCAACTTCAGCTTATCAGGTGCCAGATAGATGACAACATCCAGGCGCA
CCGGCCACCGCATCGTGGCGCCCCCTGGTGGCCGCTCCAACATCACCAGCCTCGGTTGAACGTGGATGCGCGGAG
GAGCTAGCCTGAAGGATTCTGGGAATCATGTCCATCCCTTTTCTGTCTAGTGTTTTTGAAACCCACAGTTTTAGT
TGGTGTGATGGAGGGAGGGGAAGTCGAAGGATGCTCTTTCCCTTTTCTGTTTAGGAAGAAGTGGTACTAGTGT
GGTGTGTTTGTCTGGAAATTCCTTGCCCCACAGTTGTGTTTCATGCTGAATCCACCTCGGAGCATGGTGTTCAT
TCCCCCTCCTAGTGAACCCACAGTTTTTAGCATTGTCTTGTCTGTCCCTTCCACTTCTAACTCCACTGGCTCCA
TGATTCTCTGAGTGGTGGTTTCCTTTGCACCCTGTAGATGTTCTAGGATAGTTGATGCATGTTACTAAATTACGTA
TGCAAGTCTGTGAGTGCCTCTGAGGGGACATCGCCAAGGACTGACTGAGACACGATGCCGAGACCTCAAGCCCTG
AGGGGCAGTCCCAAAACCTTACAGTGAAGATGTTTACTCATTGCCCCACCTCTGGTCCACACTAGAAAGAAGC
TCGCCCCACCTCCACCTGTGAGATCCGTGAATTCTCGGAATGGCAGGGGAAGCCTTGCACTAGGTTGCAGAGAAG
CATCCTCCACATCCTGTGTGAGAAACCCTGGTCTCCGTGGCACTTGTAACCTACCGTGCTGTCTTCTGGTCTGTG
TGTGTTCTTCAAGCCAGCTCTAGGCTTCAGGCCGAGCCAGGTTCACTCAGAAAGAGGTCTCCCCATCCCCATT
CGGGGCTGACGATGGGGGGCTGATGGCTGCCCTGCGTGGCTGAGTCTGCTCCCTCTGAGGCAGTTGACGGGG
CAGTCAGATTTTTAAAGTTTTGTACAAAGTTTTCTTTGTAATCACTCCATTTTTACTTAACAACCACTTGT
GTGGCTCTTATTTCTGAATTCAAAGCTTGTGAAAAATAAAGAAAATGAACTGCCCACTGAAAAA

AAA

1510/6881
FIGURE 1397

MSYQGKKSIPHITSDRLLIKGGRIINDDQSLYADVLEDGLIKQIGENLIVPGGVKTIEANGRMVIPGGIDVNTY
LQKPSQGMTAADDFFQGTRAALVGGTTMIIDHVVPEPGSSLLTSFEKWHEAADTKSCCDYSLHVDITSWYDGVRE
ELEVLVQDKGVNSFQVYMAYKDVYQMSDSQLYEAFFLKGLGAVILVHAENGDLIAEQKRILEMGITGPEGHAL
SRPEELEAEAVFRAITTIAGRINCPVYITKVMSKSAADI IALARKKGPLVFGEPIAASLGTGTHYWSKNWAKAAA
FVTSPPLSPDPTTDPDYLTSLACGDLQVTGSGHCPYSTAQKAVGKDNFTLIPEGVNGIEERMIVVWDKAVATGKM
DENQFVAVTSTNAAKIFNLYPRKGRIAVGSDADVVIWDPDKLKTITAKSHKSAVEYNIFEGMECHGSPLVVISQG
KIVFEDGNINVNKGMGRFIPRKAFPEHLYQVRKIRNKVFGLOGVSRGMYDGPVYEVPA TP KYATPAPSAKSSPSK
HQPPPIRNLHQSNFSLSGAQIDDNNPRRTGHRIVAPPGGRSNITSLG

1511/6881

FIGURE 1398A

TTTCTCCTTGGACCAAGATGACTGATGGAAAACCTCTCCACCTCTACAAATGGCGTAGCCTTCATGGGTATTCTGG
ATGGTCGACCAGGAAACCCCTTCAGAACCTGCAACACGTCAATCTCAAGGCGCCCCGACTCCTCTCCGCGCCTG
AGTACGGGCCCCAAGCTGAAACTCAGGGCTTTAGAAGACCGGCACAGCCTCCAGTCCGTGGACTCGGGGATTCTTA
CCCTGGAGATCGGGAACCCGGAGCCTGTACCCTGCAGCGCGGTCCACGTGAGGAGGAAGCAGTCCGACTCCGACC
TCATCCCCGAGCGGGCCTTCCAGAGCGCCTGCGCGCTGCCATCCTGTGCGCCACCAGCTCCTAGCAGCACCAGC
GGGAACAGAGCGTGCACAAATCCTCCACGTTTCCAGGACAGGCTATGACTCGGTAAAGCTCTATAGCCCCGACCT
CCAAAGCCCTGACCCGAGCGATGATGTCTCCGTCTGCAGCGTGTCCAGTCTTGGGACAGAGCTGTCCACCACGC
TGCCGTGACCAATGAGGACATCTTGGACCTTGTGGTTCACGAGCAGCTCCAGTGCCATTGTGACCCTGGAGAATG
ACGATGACCCACAGTTTACCAACGTACCTTGAGCTCTATCAAGGAAACCCGTGGCTTACACCAGCAGGACTGTG
TTATGAAGCTGAGGAGGGGAGTAAATGAAAATATTGGGGCCATTTAGTAACCTTCTTTGCAAGGAACTTGCTTG
CTAGAAAACAAAGTGCAAGGCTTGACAAACACAATGACTTGGGATGGAAGTTATTTGGGAAAGCGCCACTCCGAG
AGAATGCCCAGAAGGATTCAAAGAGAATACAGAAGGAATATGAAGACAAGGCTGGAAGACCTAGCAAGCCACCT
CTCCAAAGCAGAAATGTGAGGAAGAATCTTGACTTTGAACCACTTTCCACCACCGCACTCATCTCGAGGACAGAC
CAGCAAATCTCCAGCAAAACCAGCTGAAGAAGCTCAGAAGCACAGACAGCAGTATGAAGAAATGGTGGTTTCAGG
CCAAAAGCGAGAGCTGAAAGAAGCCCAGCGAAGGAAGAAGCAGCTGGAAGAAAGATGCAGAGTCGAGGAAAGCA
TTGGAACCGCTGTGCTCACCTGGAATAATGAGATCTTACCTAACTGGGAAACAATGTGGTGCTCTAGAAAAGTTC
GAGATTTATGGTGGCAGGGAATCCCTCCAAGTGTGAGAGGCAAGTCTGGAGCTTAGCCATTGGCAACGAGTTAA
ATATCACCCACGAGCTCTTTGACATCTGTCTTGCCCGAGCCAAGGAGAGGTGGCGGTCCCTTAGCACAGGAGGCT
CTGAAGTGGAGAACGAAGATGCTGGTTTTTCAGCAGCAGACAGAGAAGCCAGTCTGGAGCTTATTAACCTGGACA
TTTCTAGAACATTTCTTAATCTCTGCATTTTCCAGCAAGGTGGTCCATATCATGACATGTTGCACAGTATTTTG
GCGCTTATACTTGTGTACCGGCCAGATGTGGGTTATGTCCAGGGCATGTCTTCATAGCAGCAGTGTGATCTTGA
ACTTAGAIACTGCAGATGCCCTTTATTGCTTTTCTAACCTTCTGAATAAACCCCTGTCAAATGGCGTTTTTTAGAG
TGGACCATGGCCTTATGTTGACTTATTTTGCTGCATTGAAGTATTCTTTGAAGAAAATTTGCCGAAATTATTTG
CGCATTTCAAGAAGAACAACCTAACCTCCAGATATCTACCTAATTGATTGGATCTTTACCTTATATAGTAAATCTC
TGCCCTCGACCTGGCCTGTCTGATCTGGGACGTGTTCTGTGCGGATGGGGAAGAGTTCCTGTTCGCGACGGCCC
TGGGCATCCTGAAGCTGTTTCGAGGACATCCTGACCAAGATGGACTTCATTACATGGCCAGTTCCTGACCCGGC
TGCCCGAGGACCTGCCCAGGAGGAGCTGTTTGCCTCCATCGCCACGATCCAGATGCAGAGCCGAAACAAGAAGT
GGGCTCAGGTACTGACTGCATTGCAGAAAGACAGCCGGGAAATGGAGAAGGGAAGTCCGTCCCTCCGACACTGAG
GCTGCAGCGGGAATTCGCACTCGGCACCAATCAGAGCCCCATGCCGCGGCCCTCTGTTGTTTCAGACTGACACC
CGGGCAGCCGAGAAGAACAGACGCTCTTTAAGTTTGATTCTTAACACTGGAGTTGGCCTTAAACAAAACAACAC
AAAACTTTTAAAGAATTAAACCAAGGCTTAGCCTTAAGCAGCTCAGTGGAGGATGAGCTGCTGCGGACCACAG
CCAGCCACTGCATCTGCTGCACAGTTGAACGATGGGAGTGGCTCACCCCACTCCTTTATTTAGCAAAAAGCTA
ATTAATTTGTAATGTTTCTATGTCAACTACTGGGAAGTATGTTACAGTCTTAGCCAGGATGCATGAGAGATGTTA
TTTGGGAGACTTGAGATGCTTTGGCTGATATTTACATGTTTTCGATAAGAAAGGATCGCTGATGAGTTATTGA
GATAGTTTTTCCAGAGCTGGAGGTCACGTTTCTAAAACTCACCTACGAAAGATAGCATTAAAGGAACAGGGGCTC
TCTGAGGATGGCCACTGATGTGTGTTTGTGGATACCTGGGCATCGACCCAGCCTGCAGGTGAGCTCTGGGCCATG
TTGCCCTTGACACAGTCACAGTGTAGAGGCTGCAGGTGCACACGTGGGCTCCAGTGGGACTGCGCTCTGGGAGACT
GCTCCCTGGCATCGGTCTGCGGAGGTGGAAAGTTTCAGAGGAGGAGCTATTTGCGAGGAAGCCCTGTGGCAATA
GAGATAGGCTTAAAGCGGAGAGAACACAGAGTGAATCAGCCCCCTGTAAGTAAAGGGTAGAGAAAGAGATGT
GTGGCTGGGCCCTCTCCACCTGCCTGTTTCAGTGGAGGCCAGGGCAGCAGCCAGAACAGCACATGTGGGGGAGG
TGGCCCTTGTGCCAGCAGTGGCTCCTCTCTGCTTTGAGCCCTGCACAGCTGGAACCCATCCTAAGTGCCAGTGA
GTCCCTCACACATTTGACTTTAGAACGTGTGCTTCATGACCCGTTGTACAGACGAGGAGCGAGCAACACACGTC
TAACAGCCTAGACAATCTCGTCAGATGCTCATACTGGACCATCAGCCTCCCCATTTAGCTGACTTTCCAGGGT
CGTTGGCAAATTTTTTGTCTGTCTTTTCTTGACTAATTGTAGAACTTTGTGTGAGGACTTTGTTTATCCAAA
TCACAGAAATGAACCGTTTTCAGCTGCGCAGTCTAAAGGGCAGGCCAGTGTCTGGAAGCAGGGCCACGTTGGC
GTCCGTGGCAGGCTGGTCTGGGGAGCATTCTGCGGACCCGCTCACGGGCTTGGTTAGTCATGCGTACATGTGT
GCCTTGGGGTGTCTGCACTCCACGGCCCTTCTCAGCCACACTTCCACCCAGGGGGTCCCCCAGGCTGATCT
CATTTCTGATGTTGAGGCTGTTTGGCTCTGTCTGTATAGCTTGTAACAGGAGCCTTGGGCTAGGGGCTGGGGAA

1512/6881
FIGURE 1398B

GGAAAGCCGAGCTGGCATTTCGTTCTCTGGACTTTTTATGCCTGCCATACCCGCTAATGCTCCTCGAGGTGCAGGA
GCAGGTTGCTGAGCCAGTGGCTGCCCCGTGCCCTCCTTCCCAGCACTATCATGTGTACGTTTCCCGGACTCTGC
CCCTACATCTCAGCTGAATCTCCAGGGAGGCTGCAGAGCATCGTGGAGACCACTTTCTGCCTCGGCCTTTAAATG
CTGACTCACCTCCTCTCGGAGGAGGCGTCCTGTCTTACGGGGGGGTCCCGGTGGCCTCCAGACGTAGCCATTTT
CTGACATCAAGATGTTGAATGTAATCTGGTCTGAGCTGGGCCTGTGGGAGGGGCCGCTGAGGCCTGTGCGCTGT
TGTCTCGCAGATGTACTTATTTTGTTCATGATACGGGCGTTCCGTTCCCTTAAAGATGTATATATTTTCTTACT
GTACATAAAGATGTTTCCTTAAAGTCGTACAGAAGGTGGCGCGGCAAAGGGCCTCGTGCAGTGTGTTTCAGATTGCCC
CTGGGGATCTTCTGTGTCTTCAGCGCCCAGCCCTGCGTGTTCCTGGTGAAGCAGTTTCACATCAGTCTCTCCAGA
TAGCACTACGATGTATTCCGCTTCTGAACAGGATCCCATGCCAGTGTGGAACACCTTCCCAATCTTAGTTCAGAA
GTGGCTTGATGACCTGTTTCAGGGGTCACATGAGGTCTCGCCAGTTTCCTGGGTCCCTTCAGAGGCCAGAAAGT
TCTAAGTTCTGAGTCCCCGGCCAGGGTCCCTTAAACCTCGGCACAGAGGCTGTTGGCAAGTGTAGAGGCTGCCT
CTGTGTGTGGTTTAAAGTAACTGAAAATGAGACATTGACGTGCTGCTCCTCCAGAGGTCTGCACACTCCACTTCA
CATGCCGTTGACTCTCACAGTCTAAGACTTCAGGGCCGGGACCTTTGTCCAGCCTGCACAGTAGAGTGAGGCTGC
CTCTCCCGCCAGGCATTGGGATCCCATTAGAAAACGGCATTCACTTCAGAAGGTACTTTTTAACTGCTCAGTTTT
TGACTATTTTAAATAGTTTGCTGAAAACCTCTGATAACACTTGCTACATATCATGTTTTAATTGCTTGACAGTT
AACCTTTAATTTATTTAGTAAAGTGATCAAAGTAGGACTTTTTTGAATTGTAAATAGGTGGTTTTATTAAATA
AAAGTCAATGTAAAATTGTT

1513/6881
FIGURE 1399

MTDGKLSTSTNGVAFMGILDGRPGNPLQNLQHVNLKAPRLLSAPEYGPKLKLRALEDRLSLQSVDSGIPTLEIGN
PEPVPCSAVHVRRKQSDSDLIPERAFQSACALPSCAPPAPSSTEREQSVRKSSTFPRTGYDSVKLYSPTSKALTR
SDDVSVCVSSSLGTELSTTLVSNEIDLDLVITSSSSAIVTLENDDDPQFTNVTLSSTIKETRGLHQDCVHEAEE
GSKLKILGPFSSNFFARNLLARKQSARLDKHNDLGWKLFGKAPLRENAQKDSKRIQKEYEDKAGRPSKPPSPKQNV
RKNLDFEPLSTTALILEDRPANLPAPKPAEEAQKHRQQYEEMVVQAKKRELKEAQRKKQLEERCERVEESIGNAVL
TWNNEILPNWETMWCSCRKVRDLWWQGIPPSVRGKVVSLAIGNELNITHELFDICLARAHERWRSLSSTGGSEVENE
DAGFSAADREASLELIKLDISRTFPNLCIFQQGGPYHMLHSILGAYTCYRPDVGYYVQGMFSFIAAVLILNLDTAD
AFIAFSNLLNKPCQMAFFRVDHGLMLTYFAAFEVFFENLPKLFHAFKKNLTPDIYLIDWIFTLYSKSLPLDLA
CRIWDVFCRDGEEFLFRTALGILKLFEDILTKMDFIHMAQFLTRLPEDLPAEELFASIATIQMQSRNKKWAQVLT
ALQKDSREMEKGSPLRH

1514/6881
FIGURE 1400

GCTATGCGGGTGGACATCACGCTGCTATTCCGGGCCAGCGTCAAGACCGTGAAGACGCGGAACAAGGCGCTGGGA
GTGGCGGTGGGCGGGCGGGGTTCGATGGCAGCCGGGACGAGCTGTTCCGCCGGAGCCCCGGCCCAAGGGCGACTTC
TCCAGCCGGGCCCCGGAAGTGATTTCTCACATTGGCAAACCTGAGAGATTTTCTTCTGGAACACAGGAAAGATTAT
ATTAATGCTTATAGCCATACCAATGTCTGAATATGGGAGGATGACAGACACAGAACGAGACCAGATAGACCAGGAT
GCCCAGATATTTCATGAGGACCTGTTTTCAGAAGCAATTCAGCAACTACGAACAGAAGCTCACAAGGAGATACATTCC
CAGCAAGTGAAGGAGCACAGGACCGCTGTTTTGGATTTCATTGAAGATTACTTGAAAAGAGTATGTAAACTTTAC
TCAGAACAGAGAGCCATCCGAGTTAAAAGAGTGGTGGATAAGAAAAGATTATCTAAGCTGGAACCAGAACCAAAT
ACAAAGACAAGAGAATCCACATCTTCTGAGAAAGTTTCACAGAGTCCTTCAAAAGACTCTGAAGAAAACCCCTGCC
ACTGAAGAACGTCCAGAAAAAATTTTGGCTGAAACACAACCTGAATTGGGAACGTGGGGAGATGGCAAAGGCGAA
GATGAGTTATCCCCAGAAGAAATACAAATGTTTGAACAGGAAAATCAGCGACTAATTGGTGAAATGAACAGCTTG
TTTGATGAAGTGAGGCAATCGAAGGGAGAGTGGTTGAGATTTCAGACTCCAAGAGATATTCACGGAAAAGGTT
TTGCAACAGGAAGCTGAGATTGACAGCATTACCAGTTAGTTGTGGGGGCAACTGAAAATATCAAGGAAGGCAAC
GAAGACATAAGAGAGGCCATTAAAAACAACGCTGGCTTCCGCGTGTGGATCCTCTTCTTCTCGTGATGTGCTCC
TTCTCCTTGCTCTTCTCGACTGGTACGACAGCTAGCCAGGGCCACGGGGGGCCAGCACGAGAGTCCTCATGGGC
ACTCACAGACTGCGTGCTTTCATGTACTTCCAGTGCTGGAGCATGGTATGACCAGATTTTATCACAGTGCCATTT
GAAGGGAAAGGAGTTTCAGACAGACAGACGTATTCCCCAAAAGGGATACCCAGGCCGATGGTGTTCAGCCATTT
AGCAGCTGAAAAAGGAAACAGTGACACCAATGGGAGGCAGCCTGCGTAGCCCTCATCAGGCAAGACAGACTGAA
TGCAGGAGTGGGTGATTAGCTGCTCCTTGAACCTTGAGGCTGCCTTGGCAGCAGGGGCACAGCAGGCCTCAAGAGC
CCCTAATTGTCTCAGGGTTCAAAGGAAGACACTGACCTTTCCCATCCCGGTAGCTTCAGGGAAGATCATAGTTAA
TAACGTCTCTCAACAAATGATTACTTCTTTGTTTCCTTGTGGCTTCTTGTCTGTCTGAGTCAACGAATACACAGA
CTTACTGGATTATAGAAGAGAAAATTCACATCTGCCTTGTTAATCTAATAAATATAATTACAGCCCCTTAAAAAA
AAAAA

1515/6881
FIGURE 1401

MAVDITLLFRASVKTIVKTRNKALGVAVGGGVDGSRDELFRSPRPGDFFSSRAREVISHIGKLRDFLLEHRKDYI
NAYSHTMSEYGRMTDTERDQIDQDAQIFMRTCSEAIQQLRTEAHKEIHSQQVKEHRTAVLDFIEDYLKRVCKLYS
EQRAIRVKRVVDKKRLSKLEPEPNTKTRESTSSEKVSQSPSKDSEENPATEERPEKILAETQPELGTWGDGKGED
ELSPEEIQMFEQENQRLIGEMNSLFDEVQRQIEGRVVEISRLQEIFTEKVLQQAIDSIHQLVVGATENIKEGNE
DIREAIKNNAGFRVWILFFLVMCSFSLFLDWYDS

1516/6881
FIGURE 1402

AGCTTAGAGGCAAAGTTAAGAGACTCATCAGATTCTGAGCTGCTGCGGGATATTTTGCAGAAGACGTGCTGTATT
GCCCAGAAGCCATCGTGTCACTGGTCGGGGTCCTGCGGAGGCTGGCTGCCTGCCGGGAGCACAAGCAGGCTCCTG
AGGTCTACCTGGCCTTTACCGTCCGCAACCCAGAGACGTGCCAGCTGTTTACCACCGAGCTAGGCTGGACTGGGA
TCAGATGGGAAGTGGAAGCTCATCATGACCAGAACTGTTTCCCTACAGAGAGCACTTGGAGATGGCAATGCTGA
ACCTCACACTGTAGGACTCACACACGACTCCAACGGGCTTGTGAGAATTAAGTCACTCTCGTGGGAAGAATTTTT
ATATGGGAAGCGGATAAACTTTCATTGCACTGGAATGTTTGGAAAATGTTAAATTCCAAATCAGGAACCACAA
ACTGCCCTCTAATAAGACATTGGCTATCTAAGCATGTGGGTGCCCCCTTTCTGCCAGCAGTTCTGGTTCTTAAGA
AAATCACCATAAATCAGACATGAAAATTCTGGCTCCAAAAATAGCATTTCCTTGTGCAAAATAAAACGAGTGTA
TCAAGTATGACGTTCCCCAACGTGGACACACTTGTTCCTCAGAAAGCCAAACCTGCTGCAGCTGCCACATCCC
TGGACACACTCGTTTCCTCACAAGCCAAGCCCGTACAGCTGCCACATCCCTGGACACACTCGGTTCCCTACAA
AGCCAAGCCCGCTGCAGCTGCCACATTCTGGGCTTATGGTGCAGCAGGTGCTTTTTTCAAGACAGGAATCAAAG
TGTAAGGAACATGGCAGAAAGGTGACACCTGGAGACCAAATGCAGGATGAGGAGTACTGCAGAGGTACAGGGAA
GTCACAGAACAGTAATACGCTGGCAGGGGCATGGGGCATGAAGAACAGAAGAAGACATTGAGAAAAGCATCTGC
AAAATACTAAAGAGCAGAGCTTACCTCATTTCCGTGTCACCCACCCCATCCCAGGTACCCACCTGGCTGACCCAGG
TCCCCGACCCAACAACAACCCCTCCCAAGTCCCTAACTCCCTTACCTGGACTTGAGACCCTTACACCCACAGCAG
TGCTCCGCCTCCAACCTTGACATCATGCTTTCTGGAACCTTCCCGTGTGTCCCACTTTCCACACTTGGTGGCT
GGAGCACCTTCCGGCCTCTACATGCTGTACGTTCCCTGTGAGCACCTCCTCTCGGCCTCTGGCCAACACAGTC
CCACCCATCTGTGGGTAAACAAGGGGGTGTGGGTGTTCTTTTCAGCCTTGCTAAACTGTCTGAATCAAGGATCACA
AACTACAGCCTTCAGGCCAAATCCAGCCACAGCCTGTGTTTGTAATAAAGCTTTATTGGAACAAAGCCACACC
CCTTAATCTACAGATGATCTGTGGCTACTTTACGCCCACAACAGAGTACCATGGTTCTGACAGAGACTGGGGGAC
CCAGTCTAAATGACTTCCGACCTGGACCTTTACTGAAAAATCCTCCCAATCATTCTGTTGACAAGAATGATGTATT
ACTTTTTGCAATAAGAAACAAGTAACATTTGCAGAATTCCACCCATCTTTCAAGGCTGGTCCCAGAAGTTCCCTT
TGCCACACACCTACCTGATCCTGACAACTTCCTAAACTGCAGCCCTGCCACCCGGCTCCAGCATCATTTGTGG
AGTGTCACTCCATAAATCCAGAGGGCAGGTGGGGGTGTGTCCTAACATTCCCGAGCCTACTGTACCGAAACGGG
ACAGCAGAGTAGGCCAGCATCTGTGACTTCTGCTCCCTCACTAGCTTTTCCACCAGACCCACATGTTACCACCC
TGGCTGTGGGAAGCAGGGATCAGGGAGTGTGGCTCGGTGCCCGTCTCCAGAACCCTGCCACCCCTGGCGTGGTG
CAGACATGGTTACCTGCAGCTGAGCTGCCAGTTCCTCTGAGTCCTCAAAGACCAGGCCGTTTCTTTCATGTTTCA
CTAGCTCATGTAAACTGCAGAGAGAACCAAGGGAGCCTGAGAGCTGCCTGGGGAAGACACCAGACCCCTGGGGTG
CCCAGCTTGCCCTCCACCCACCCACGCTCAAGCCAGGCTGGGGGTGGGAACAGGGGGTGTGGTTTCTGGGAGCT
GGTTCTTAGATTTGGCATCTGAAGCATATAAAGGTCTGGGGGAGTGCACATCAAAATGGCCAAATCAATTTGAGG
AGGGAGCCTTAAGGAAGGTTTGTACGTTCTGTGCTGGATGCTCTTCAAGTACTGAAGAATTATTTTGCATGTTT
TTCTTAATTCATGGCCATGGAACAAGTAAAGGCAACCCCTGGGGACTGGTTCAGCACATAAAGATGACTTTT
CTAGGACACC

1517/6881
FIGURE 1403

MAPEENAGTELWLQGFERRFLAARSLRSFPWQSLEAKLRDSSDSELLRDILQKTVKHPVCVKHPPSVKYARCFLS
ELIKKHEAVHTEPLDELYEVLAEITLMAKESTQGHRSYLLPSGGSTLSEITAIISHGTTGLVTWDATLYLAEWAI
ENPAAFTNRGVLELGSGAGLTGLAICKMCRPQAYIFSDCHSRVLEQLRGNVLLNGLSLEADITANLDAPG

1518/6881
FIGURE 1404

TTGTCCGTGGCTTCTCTGAGAAGAAAAGTTGAAAAAGGGTAAAAGTTTTTCAGGAATATTCGGGCTCTCTATTGCT
AAGCATAGCGAGTGTTCGGTTTTCTCTCTCCAACAGACATCGCTATTGCGGTTCCGAGGCAGTGGGAAGAGATGCG
GCCCCCTGGACATCGTCGAGCTGGCGGAACCGGAGGAAGTGGAGGTGCTGGAGCCCAGGAGGATTTTCGAGCAGTT
TCTGCTCCCGGTCATCAACGAGATGCGCGAGGACATCGCGTCGCTGACGCGCGAGCACGGGCGGGCGGTACCTGCG
GAACCGGAGCAAGCTGTGGGAGATGGACAATATGCTCATCCAGATCAAAACGCAGGTGGAGGCCTCGGAGGAGAG
CGCCCTCAACCACCTCCAGAACCCGGGCGACGCGGCCGAGGGCCGGCGGCCAAGAGGTGCGAGAAGGCCGAGGA
GAAGGCCAAGGAGATTGCGAAGATGGCAGAGATGCTGGTGGAGCTGGTCCGGCGGATAGAGAAGAGCGAGTCGTC
GTGAGCGCGGTTCGGCGGTTTCCAGCCAATGGATTCTGGTCAACTGGTGGAGATTGGCTGACACCCIGGAGAAGCC
GAAACCAGAGAGCCTTTTGTCTCTTTTTTCTGTCTATGCTCTGTCTCACTTAACACTACGTTTTCTGCTAT
GGTCTGTGGTTGATGACCTCAATATGAGTTTCGATTGTTAACGTTTTTGTGGGAAGTAATTTGTTTGAAA
ATGCTCTCACATACAGGAATTAGGGCCTAGATTGTAAGCTCTTGCAGCAGTCACATTGTTCCCGGGCTTTGGTG
GTTATTTCTAAATTTTGGAGGTGCTTTGCTATTTCTTGTGTGACCTGATAGCTCCCTGGAACTTTGGGTCTGTGT
GTGACACATGAGACTCACAGTTGGAGTTCTCCAGCTCTGGAGGTGCTGAAGGAGCTGCATTAATTCTGGAAGACG
ACTCCATGCAGCAACTACTGAAGAAAGGACCAGACTTCAACGGGGAGTGTGGATGGGCCGACCTGGCTGGGACTC
GTGAATCTGGAGAAGAGCTGGAGAATGGATAGTATTGTCTGTATTGGAGACTTTAATTTCTGTGTGAGACCAA
GGAGGAGAGATGTGTTTTGTTCAAAATTTAAATTTGTTGTGGTACACTATCTTATGTAACCTGTCTGGTGAGTTT
GTTTGGACAACCTAACTCAGCTTTATTTGACATGGAACCTAAATAGAAAGATAAGATCTTGATATTCTGTACAAG
TTGATGTAATACCCTGATGCGTTTTAGAGGACTTGGCATAAAATGAAAGATTGGCAAAGGCCCTTGAGGGGCTTG
GGGATGACAGTATGGAACGTCTGCATTGGACCCTAACTGGACTAGAAGAGGCATCTTCAAGGTTCAACGTTG
TCCAGCTGTAAGTTCAATTTGAGTAGCAGACCTAACAAATATTTGAGGTCAGAACCCTACCATGTTAAACAAACA
AAAACCTACCATGTTAATAAAAGTATTCATTTGC

1519/6881
FIGURE 1405

MRPLDIVELAEPEEEVLEPEEDFEQFLLPVINEMREDIASLTREHGRAYLRNRSKLWEMDNMLIQIKTQVEASE
ESALNHLQNP GDAAEGRAAKRCEKAEKAKEIAKMAEMLVELVRRIEKSESS

1520/6881
FIGURE 1406

GTGGGGCAACCTGTTGCTAGTCTGGTTCGTTGGTGACAGCGAGGCTTCCGCGCTCGCTGCTGGTGAGCAGCCCCG
GCGTGCCCCGCGGGCTGGAAGAGGCGGGCGGCGTGATCGGGCCCGTGACGCGGACGAGGCGGGAGCCCCGCGA
GGAGCCGGGCAGCCCCGCTGAGCCCCGCGCCCCGCGCGCGCGGCGCGGAGAACCTGGCCTCCCTGGAGCGCGAGCGCGC
CCGGGCGCACTGGCGGGCCCCGAGGAAGCTGCTGGAGATCCAGAGCCTGCTCGACGCCATCAAGAGTGAGGTGGA
GGCAGAGGAGCGGGGCGCCCGGCCCCAGCACCCCGCCGCGTGCGGAGGCTGAGGAGCGGGTGGCTCGGCTGTG
CGCCGAAGCAGAGAGGAAGGCTGCGGAGGCGGCGCGGATGGGCAGGCGGATCGTGGAGCTGCACCAGCGGATCGC
CGGCTGCGAGTGTCTGCTGAGCCGGCGAGGCCGCGCGGGTCTGGAGCGGAGCGCGCGGGGAGTGTCCCGCGTGGA
AGGCGCTGGGTAGGCAGGGAGGGGAGCGCAGAGCCGTGCCACGCTCTCCGCGGAGTTGGTTTCATTCTTTTTC
TAGGTAATTAGAGAAAATAATTTGATATGTTGTTGTAAAGAGTCATGACCACTGGAAGTATTTTCAGGACGTAGA
CCTGGTGGGTCACTACGTGGGGGAGAGAGGTGTGAAGCGGAGGTACATGCTGGAACCGTGTGAATGTTGTACG
AGATTGGAGCATTTCGATGACCTTCCTGCAGGTGGAAGCATTGTGCACAGGTGGTTGGGTTTGTGTTGACTCCCG
GATATGAGAATATCAAGCTCAAAATTTATGTTGTGATGATGAATTTCTCCCACTTGTACTTTAGGTGGCCAACTG
ACGAACGTGTTCACCTGATAAGGAGTCGTGGCTGCTTGGACAGGCTCAAACCAAGAGACCTTTTCGTTTGTCT
CCCCGTGTTTTCTGCCTGCGTTTTCTCCACATTAGCCACTCAATTTCCAGTACCATCCTGGCGGATGACTTCAGC
ATTAGATGGTCAGGTGTATTTTTTTATTAATAGGCGCATTTCAGTTTGGAAAAGACAGCTTTTCATTAAATGTTCCA
CGTAAAGGAATATGGCCTATACAGTACGTACGCTGCTGCGTGGTCATATTTGTTCCGTGTGATCTTATTTGTTT
CAAAGTTTGGAGTATACTCGTGTGCTTTGCTGTTTTTTATGCTTCCGTGAATTTGGGGACTCATGAGAGACTT
GAGGTTAGAGTTCTGCAAGTGAGAAGACACTACATGGTTGCAGCTGCCACATGAAGAACCAAGCTCCTGTCAAA
GTTGTGAATGCGACTTTGGATGAGATTAAGAAGGCCAGTGACGGTTGGTCTTGAAGAGTGGCAGTGTGTGGAT
TTGAGGACCTCTGCAGACCATCAGATCAAAGGAGGGAGAGCTGTTTTGGGTGTTTTGTTTTTTTATAG
CATTTTGCTTTTTCTTGAATGTAATTTTCCTATGGCATGTTAACTGGTGCACATCGTGTAACCTGCTGCTGGTGAG
CAACCTACAATTGGGATGAGTTCTAGGTACATGTGTTGCTGACTTTGGGGTAAACAACCTTGTATATAATACAGT
CTCTGCCACAGATGCATGTGACCTCTTCAGGGGCCAGAGTGCTGAGGAAGGAAAGCTTCAAGCTGGCCATGGG
GGTCCCAAACAGTCATTCCAGGCTTAGATGATGACTAGCCTAGGTCATCAGAGCCAGACTCCACAGAGACTAAA
ATCAGAGCTCTGTCTTGTATGATAAATTTCAATTTGCTTGGAAAAAGAAATGCTGAAAGCCAGTGTTTAGAATCT
TTGTGCAGATGACCAAAGCAATTGACTTGGCCAAGAAAAGGTAAGGTAATAAACATTTTTCAAAATGAAAAAAA
AAAAA

1521/6881
FIGURE 1407

MRPVDADEAREPREEPGSPLSPAPRAGRENLASLERERARAHWRARRKLEIQSLDAIKSEVEAEERGAPAP
RPRAEAEERVARLCAEAERKAAEAARMGRRIVELHQRIAGCECC

1522/6881
FIGURE 1408

ATGACCCACACCGTGCAAGGCTTGGATGTGGCTGGTCTTCTGAAAGCACTTCCTCCCATTAACCTTCATTCTGT
TCAGCAGAAACAGACGAGGACCGTCAGGAACACCTGGGAAGGAACGAGAATGGAAGAGCAGAGCAAGGGGCAAGG
CATACAGCCCTGCAGGGAACCCAGAAGGCAGCCATCCCTGACAGTGAGAGCAGCTCTGTCTTGGGAAGGCAGAT
GGGTCTTGCCAGAAGCCTGGGCCTGGCCTTGTGGCCTCACCGGCAAGCTCAAGCTTGCCCCCAGCTGCTGATC
AAGCAAGACATCGTGTCCCTTCTTAGCAACTTTGTCACCAGGCTGTGCTTCCCAGAGCTGCTGTCACCGCAGTTT
TTTGTGCAGGAGCCACAACACCTACCCATGCAGTCCATGGACTTCTCAGGTCTCTGGGGCCCCCTCCTGGCTGTG
GCCTCCCCCGGGCTGGGTTTCTTGGTGGCCCTCTGGAGTGCAAGAGACCTGGACTGGGCCGACTGGACCGTCCCA
CACCTGACCAACTGCTTATGCCTCGCATGTGTCACAACGTTAACAGAGTTATTTGTATATTTGGCCCACCAGTT
AAAGAACCTCCTACAGATGTTACTCCCACTTTCTTGACAACAGGGGTGCTCAGTACTTTACGCCAAGCTGATTTT
GAGGCCCATAACATTCTCAGGGAGTCTGGGTATGCTGGGAAAATCAGCCAGATGCCGGTGATTTTGACACCATTA
CATTTTGATAGGGACCCACTTCAAAAGCAGCCTTCATGCCAGAGATCTGTGGTTATTGGAACCTTTATTACTAGT
GACTCCCTGACTGGTATACCTGCAACACCTGGCAATGAGATCCCTGTAGAGGTGGTATTAAAGATGGTCACTGAG
ATTAAGAAGATTCTGGTATTTCTCGAATTATGTATGACTTAACATCAAAGCCCCAGGAATACTGAGTGGGAG
TAA

1523/6881

FIGURE 1409

MTHTVQGLDVAGLLKALPPIKLHSCSAETDEDRQEHLGRNENGRAEQGARHTALQGTQKAAIPDSESSSCPGKAD
GSCQKPGPGLVGLTGKLLAPQLLIKQDIVSLLSNFVTRLCFPELLSPQFFVQEPQHLPMQSMDFSGLWGPLLAV
ASPGLGFLVALWSARDLDWADWTVPHPDQLMPPRMCHNVNRVICIFGPPVKEPPTDVTPTFLTGTGLSTLRQADF
EAHNILRESGYAGKISQMPVILTPLHFDRDPLQKQPSCQRSVVIRTFITSDSLTGIPATPGNEIPVEVVLKMYTE
IKKIPGISRIMYDLTSKPPGTTEWE

1524/6881
FIGURE 1410

GAGCGGCGCCGGCCTCGGCGGCTGAGGAAAGCAGGAGGAGGTGGTGGCGGCGGGAAGATGCCGCTCTTTGGCGTA
AATTGCAATCGATTAGGGATCGTTTCTCAGAATCAAGTTAGAAGTGAGAGTTCAGATAAGTGAGGCCGCCATTGC
TGCTTTGAACACCTCAGAAGGGGAGAAATGGATTATCAGGAGTGAAAAAGAAGAGCTTGCTGGGAGTCAAAGAAA
ATAATAAAAAAGTCCAGCACTAGGGCCCCCTTACCTACCAAACGCAAAGACCGCTCAGATGAGAAGTCCAAGGATC
GCTCAAAAGATAAAGGGGGCCACCAAGGAGTCGAGTGAGAAGGATCGCGGCCGGGACAAAACGCGAAAGAGGCACA
GCGCTTCCAGTGGTAGCAGCAGTACCAGGTCTCGGTCCAGCTCGACTTCCAGCTCAGGCTCCAGCACCAGCACTG
GCTCAAGCAGTGCGTCCAGCTCTTCTCAGCCTCCAGCCGCTCAGGAAGCTCCAGCACCTCCCGCAGCTCCAGCT
CTAGCAGCTCTTCTGGCTCTCCAAGTCCTTCTCGGCGCAGACACGACAACAGGAGGCGCTCCCGCTCCAAATCCA
AACCACCTAAAAGAGATGAAAAGGAGAGGAAAAGGCGGAGCCCATCTCCTAAGCCCACCAAAGTGACATTGGGA
GACTCACCAGGAATGTGACAAAGGATCACATCATGGAGATATTTCCACCTATGGGAAAATTAAAATGATTGACA
TGCCCCGTGGAAAGGATGCATCCCCATCTGTCCAAAGGCTATGCGTGCGTAGAGTTTGAGAATCCAGATGAAGCTG
AGAAGGCGCTGAAGCACATGGATGGAGGACAAATTGATGGCCAGGAGATCACTGCCACCGTCGTGCTGGCCCCCT
GGCCTAGGCCAACCCCCAGGAGATTAGCCCTCCAGGAGAAATGTTGCCACCACCGCCTATGTGGCTCAGGTCTC
CCCCACGGATGAGGAGAAGGTCCCGCTCCCGAGGCGCAGGTCCCCCGTGCGCCGGAGATCACGGTCCCCGGGCC
GCGCCGCCACAGGAGCCGCTCCAGCTCCAACCTCTCCCAATAAACAGGCCACTGAAGCTCTCGCCCCCTGTAACCT
TATACGCCACCCAGCTCAGTTTGTCACTTTTCTAGCCAAAGCAAGACCAGTAGGAAAGCAAACCCCTGACTCTG
GCAGGATTTGCAGGCAGCAGGCAGCACCCCTCTGCCAGCCGGGCTCCGGCTGCAGAAGTGCTGTTGGCTTGGATG
CTGTGTGCCTGTCAAGATTCCCTCCGGTTTTCTGGCTAGAAAGCTCACCCGTTTCCGGTTTTAAGAGTCAGTTCA
GTGGCAGAGCCACCAGGACAAAGTGAGGCTCTTGGGGTGTTTGACCCTGCTTACCTGGGAGCACACTTTTCCC
TTCCCCGATGACCTGGGATGGTGGCCAGGCCGTGCCCTTGCTGTTGCTGGGCAGTGTCTTTTTGGAAAGGGAGCT
GCCCCAGGCTTTAGTGAGCTGCCAACGCTGTTAGGCCTGGCCTCTCGAGGCCTTCTGACTTCAAGGGTCACA
GCCCCCAAAGATCCTCTCACCCTAGGTAGTTGCTGCTCATGTTCTGTCTGTCCGTGCACCGATGCATACACCA
CACCCACCGCTGTACTCTGAAATTGGCGAGTGAGTTGAGAGCCAGCTCTGCGGGTCAACAGCAGCCATGGTT
GTGCCTGTCTTCATGGTGGTCTTTCAGGTTATCTTGGCAACATGTACATTGCTTTTATTTTTTTCTTTTTTGC
TTTTATTGTACAGTCAGTTCTATAAAATTTCTTTTGTAGTTTTATACCTTTGTAGCATTTTAGATGACATTGTG
TTTGACTTTTGTGTGTAGAGTGGAAGAATTGTGTTGAATAAACCAAGATCGGAATGC

1525/6881
FIGURE 1411

MDLSGVKKKSL LGVKEN NKSS TRAPSP TKRKDRSDEKSKDRSKDKGATKESSEKDRGRDKTRKRHSASSGSSST
RSRSSSTSSSGSSTSTGSSSGSSSSSASSRSGSSSTSRSRSSSSSSSGSPSPSRRRHDNRRRSRSKSKPPKRDEKE
RKRRSPSPKPTKVHIGRLTRNVTKDHIMEIFSTYGKIKMIDMPVERMHPHLSKGYACVEFENPDEAEKALKHMDG
GQIDGQEITATVVLAPWPRPTPRRFSPPRMLPPPPMWLRSPPRMRRRSRSPRRRSPVRRRSRSPGRRRHRSRSS
SNSSQ

1526/6881

FIGURE 1412

CTCCACCCTGIGGGCTGTAAGCAAGCTCAGGCTAGTCTCCCCACTGGGGGCTGTGCCCCCTCCCTGGGACGGTTCC
GTGGGCAGCCCCATCACTGTGTTCAATAGTGTGAGAATGTAGCTGCGTGGGGACAATCCATCGTGGAGTGTTCTC
TCAGCTTAGGTCTGGACAGGAGACTTGGCGGGAGATGCTCCAGGATGTGGGTGATTCTGTACCTGGGGAGGCTAT
CTCTGACCTCCCGACAGGGGACACTCCCAGGCCAGCCAGGGGTGAGGGGCAGAGGTGCACACCTCAGCATGAGC
CAAGACTGGGGTCAGGGAGCAGGTGTGGTTTGAGCCAGGACCTGGGGCGGGGTGGGGCCGGGGCCTTTCTGCCT
CATTTGCTTTCAATGAAAGCCTCAAAGCAGCCAAAACCAGGCTTTCCCCCTCCTCGAGTTTGAATATCCAGAAT
CTTTTGACTTCTTGTGGTTAAATTGTTTATTTTGTAAAAATAAAATAAAATTAGTTAATAA

1527/6881
FIGURE 1413

ATAGAAGACTACTCGGAGAGCGCTGCCTCTGGGTTGGCGGGCTGGCAGGCTGTAGCCGAGCGCGGGCAGGACTCG
TCCCGGCAGGGTTCCAGAGCCATGGGAGCGGAAAGGAGGCTGCTGTGCGATTAAAGAGGCCTTTCGGCTGGCGCAG
CAGCCGCACCAGAACCAGGCGAAGCTGGTGGTGGCGCTGAGCCGCACCTACCGCACGATGGATGATAAGACAGTT
TTTCATGAGGAGTTCATTACCTTAAATATGTTATGGTGGTCTATAAACGTGAACCAGCTGTGGAGAGGGTA
ATAGAATTTGCAGCAAAGTTTGTTACCTCATTTCACCAATCAGATATGGAAGATGATGAGGAAGAGGAAGATGGT
GGCCTTTTAAATATTTGTTTACTTTTCTTAAAGTCTCATGAAGCAAACAGCAATGCAGTGAGATTTAGAGTG
TGCCTGCTCATAAACAAGCTTTTGGGAAGTATGCCAGAAAATGCTCAGATTGATGATGATGTGTTGATAAAATT
AATAAGCCATGCTTATTAGATTGAAAGATAAGATTCCAAATGTGAGAATACAGGCAGTTCTGGCGCTTTCACGA
CTTCAGGATCCCAAGGATGATGAATGCCCAGTGGTTAATGCATATGCTACTTTGATTGAAAATGATTCAAATCCA
GAAGTTAGACGGGCAGTGTTATCATGTATTGCACCATCAGCAAAGACTTTGCCAAAATTGTAGGGCGCACCAAG
GATGTGAAAAGAGGCTGTGCAAAAGCTGGCTTATCAGGTTTTAGCTGAAAAGGTTTCATATGAGAGCTATGTCCATT
GCTCAGAGAGTAATGCTCCTTCAACAAGGCTTAATGACAGATCAGATGCTGTGAAACAAGCTATGCAGAAGCAT
CTTCTTCAAGGCTGGTTACGGTTCTCTGAAGGAAATATCTTAGAGTTGCTCCATCGGTTGGATGAGAAAATCT
TCTGAAGTGGCAGTCTCTGTTCTCAATGCCTTGTTTTCAATAACTCCTCTCAGTGAAGTGGTGGGACTCTGTAAA
AACAATGATGGCAGGAAATTGATTCCAGTGGAAACATTAACTCCTGAAATTGCTTTGATTGGTGGTCCCTTTGT
GAATATTTGAAATCAAAGGAGATGAAGGTGAAGAATTTTAGAGCAGATTTTCCAGAGCCTGTAGTATATGCA
GACTATTTATTGAGTTACATCCAGAGCATTCCAGTTGTTAATGAAGAACACAGAGGTGATTTTTCCTATATTGGA
AATTTGATGACAAAAGAATTCATAGGTCAACAATTGATTCTAATTATTAAGTCTTTGGATACCAAGTGAAGAAGGA
GGAAGAAAAAACTGCTGGCTGTTTTACAGGAGATTCTTATTTTACCCACAATCCCAATATCCCTGTTTTCTTTT
CTTGTGAAAGACTACTCCACATCATTATAGATGATAATAAGAGAACACAAATTGTTACAGAAATTATCTCAGAG
ATTCGGGCGCCCATTTGTTACTGTTGGTGTAAATAACGATCCAGCTGATGTAAGAAAGAAAGAACTCAAGATGGCT
GAAATAAAGTTAAGCTTATCGAAGCCAAAGAAGCTTTGGAAAATTGCATTACCTTACAGGATTTTATCGGGCA
TCAGAATTTAAAGAAGAAATAAAAGCATTAGAAGATGCCAGATAAAACCTTTTGAAGAGACAGAGCAACTTGAA
ATTAAGAAGTCCACATAGAGAAGAATGATGCTGAAACATTGCAGAAATGCTTATTTTATGCTATGAACTGTTG
AAGCAGATGTCCATTTCAACAGGCTTAAGTGCAACCATGAATGGAATCATCGAATCTTTGATTCTTCTGGAATA
ATAAGTATTCATCTGTTGTAAGAAACCTGGCTGTTTTATGCTTGGGATGCTGTGGACTACAGAATCAGGATTTT
GCAAGGAAACACTTCGTATTACTATTGCAAGTTTTGCAAAATTGATGATGTCACAATAAAAAATAAGTCTTTAAAG
GCAATCTTTGACCAACTGATGACGTTTCGGGATTGAACCTTTTAAACTAAAAAATCAAAACACTTCATTGTGAA
GGTACAGAAATAAACAGTGATGATGAGCAAGAATCAAAAGAAGTTGAAGAGACTGCTACAGCTAAGAATGTTCTG
AAACTCCTTTCTGATTTCTTAGATAGTGAGGTATCTGAACCTTAGGACTGGAGCTGCAGAAGGACTAGCCAAGCTG
ATGTTCTCTGGGCTTTTGGTCAGCAGCAGGATTCTTCTCGTCTTATTTTGTATGGTACAATCCTGTGACTGAA
GAGGATGTTCAACTTCGACATTGCCTAGGCGTGTCTTCCCCGTGTTTGCTTATGCAAGCAGGACTAATCAGGAA
TGCTTTGAAGAAGCTTTTCTTCCAACCTGCAAACTGGCCAATGCCCTGCATCTTCTCCTTTAGCTGAAATT
GATATCACAAATGTTGCTGAGTTACTTGTAGATTGACAAGACCAAGTGGATTAAATCCTCAGGCCAAGACTTCC
CAAGATTATCAGGCCCTTAACAGTACATGACAATTTGGCTATGAAAATTTGCAATGAGATCTTAACAAGTCCGTGC
TCGCCAGAAATTCGAGTCTATACAAAAGCCTTGAGTTCTTTAGAACTCAGTAGCCATCTTGCAAAAGATCTTCTG
GTTCTATTGAATGAGATTCTGGAGCAAGTAAAAGATAGGACATGTCTGAGAGCTTTGGAGAAAATCAAGATTCAG
TTAGAAAAGGAAATAAAGAATTTGGTGACCAAGCTGAAGCAGCACAGGATGCCACCTTGACTACAACACTACTTC
CAAAATGAAGATGAAAAGAATAAAGAAGTATATATGACTCCACTCAGGGGTGTAAGCAACCCAAGCATCAAAG
TCTACTCAGCTAAAGACTAACAGAGGACAGAGAAAAGTGACAGTTTCAGCTAGGACGAACAGGAGGTGTCAGACT
GCTGAAGCCGACTCTGAAAGTGATCATGAAGTTCCAGAACCAGAATCAGAAATGAAGATGAGACTACCAAGACGA
GCCAAAACCGCAGCACTAGAAAAAGTAACTTAACCTTGCCCAATTTCTCAATGAAGATCTAAGTTAGGAAAGA
CGATGGAGGTGGAATCCTTTAAGATTATGTCCAGTTATTTGCTTTAATAAAGAAGAAGTTACCCTTGTCAAAATC
AG

1528/6881
FIGURE 1414

GGCACGAGAACAATGGCGGCTCCACTAGGGGGTATGTTTTCTGGGCAGCCACCCGGTCCCCCTCAGGCCCCGCCGG
GCCTTCCGGGCCAAGCTTCGCTTCTTCAGGCAGCTCCAGGCGCTCCTAGACCTTCCAGCAGTACTTTGGTGGACG
AGTTGGAGTCATCTTTCGAGGCTTGCTTTGCATCTCTGGTGAGTCAGGACTATGTCAATGGCACCGATCAGGAAG
AAATTCGAACCGGTGTTGATCAGTGTATCCAGAAGTTTCTGGATATTGCAAGACAGACAGAATGTTTTTCTTAC
AAAAAGATTGCAGTTATCTGTCCAGAAACCAGAGCAAGTTATCAAAGAGGATGTGTCAGAACTAAGGAATGAAT
TACAGCGGAAAGATGCACTAGTCCAGAAGCACTTGACAAAGCTGAGGCATTGGCAGCAGGTGCTGGAGGACATCA
ACGTGCAGCACAAAAAGCCCGCCGACATCCCTCAGGGCTCCTTGGCCTACCTGGGAGCAGGCATCTGCCAACATC
CCTGCACCTCTGAAGCCAACGTGAGCAAAGGGCAGAGGCAGTTGGCCTATGAGTGGGCTGATGCCGTAGGXTGGC
CACACATTCCCTTXCTGTGGACTTGACATTTTGGAGAAGTCTTTGCCAGATAATGAGTTCATTTTAGTTTTATG
CTCCCATTGAAAAATTTCCACTATTTTTATAAGCTGTTAATTTCTTGAGTACTTTATAACATGCTGTAGCTTG
GATAACCAAGTAAGTATTTAAAAAAAAAAAAAAAAAAAAA

1529/6881
FIGURE 1415

MAAPLGGMFSGQPPGPPQAPPGLPGQASLLQAAPGAPRPSSSTLVDELESSFEACFASLVSQDYVNGTDQEEIRT
GVDQCIQKFLDIARQTECFLLQKRLQLSVQRPEQVIKEDVSELRNELQRKDALVQKHLTKLRHWQQVLEDINVQH
KKPADIPQGSLAYLGAGICQHPCTSEANVSKGQRQLAYEWADA

1530/6881
FIGURE 1416

CCTAGACGCACGTCCGCTCGCCCCGGCGCCCGAGCCAGTCCGCGCGCACGCCGTCTGCGCCCCGAAAGCCCCGCC
CAAGGCGCGCCCCGCCACCGCTCTCCACGTGCTCGCTGGAGGGCGGTGCGAGGGGCCGAGCCGACAAGATGTTCT
TGCTGCCTCTTCCGGCTGCGGGGCGAGTAGTCTGCCAGCTCTGGCCGTGAGACGTTTCGGGAGCCGGAGTCTCT
CCACCGCAGACATGACGAAGGGCCTTGTTTTAGGAATCTATTCCAAGAAAAAGAAGATGATGTGCCACAGTTCA
CAAGTGCAGGAGAGAATTTTGATAAATTGTTAGCTGGAAAGCTGAGAGAGACTTTGAACATATCTGGACCACCTC
TGAAGGCAGGGAAGACTCGAACCTTTTATGGTCTGCATCAGGACTTCCCAGCGTGGTGCTAGTTGGCCTCGGCA
AAAAGGCAGCTGGAATCGACGAACAGGAAACTGGCATGAAGGCAAAGAAAACATCAGAGCTGCTGTTGCAGCGG
GGTGCAGGCAGATTCAAGACCTGGAGCTCTCGTCTGTGGAGGTGGATCCCTGTGGAGACGCTCAGGCTGCTGCGG
AGGGAGCGGTGCTTGGTCTCTATGAATACGATGACCTAAAGCAAAGAAAGAAGATGGCTGTGTCGGCAAAGCTCT
ATGGAAGTGGGGATCAGGAGGCCTGGCAGAAAGGAGTCTGTTTGCTTCTGGGCAGAACTTGGCACGCCAATTGA
TGGAGACGCCAGCCAATGAGATGACGCCAACAGATTGCTGAAATTATTGAGAAGAATCTCAAAAGTGCTAGTA
GTAAACCGGAGGTCCATATCAGACCCAGTCTTGGATTGAGGAACAGGCAATGGGATCATTCTCAGTGTTGCCA
AAGGATCTGACGAGCCCCAGTCTTCTTGAAATTCACTACAAAGGCAGCCCCAATGCAAACGAACCACCCCTGG
TGTTTGTGGGAAAGGAATTACCTTTGACAGTGGTGGTATCTCCATCAAGGCTTCTGCAAATATGGACCTCATGA
GGGCTGACATGGGAGGAGCTGCAACTATATGCTCAGCCATCGTGTCTGCTGCAAAGCTTAATTTGCCCATTAATA
TTATAGGTCTGGCCCCCTCTTGTGAAAATATGCCCAGCGGCAAGGCCAACAGCCGGGGGATGTTGTTAGAGCCA
AAAACGGGAAGACCATCCAGGTTGATAACACTGATGCTGAGGGGAGGCTCATACTGGCTGATGCGCTCTGTTACG
CACACACGTTTAACCGAAGGTCATCCTCAATGCCGCCACCTTAACAGGTGCCATGGATGTAGCTTTGGGATCAG
GTGCCACTGGGGTCTTTACCAATTCATCCTGGCTCTGGAACAAACTCTTCGAGGCCAGCATTGAAACAGGGGACC
GTGTCTGGAGGATGCCTCTCTCGAACATTATACAAGACAGGTTGTAGATTGCCAGCTTGCTGATGTTAACAACA
TTGGAAAATACAGATCTGCAGGAGCATGTACAGCTGCAGCATTCTGAAAGAATTTCGTAACCTCATCCTAAGTGGG
CACATTTAGACATAGCAGGCGTGATGACCAACAAAGATGAAGTTCCCTATCTACGGAAGGCATGACTGGGAGGC
CCACAAGGACTCTCATTGAGTCTTACTTTCGTTTCAGTCAAGACAATGCTTAGTTCAGATACTCAAAAATGTCTT
CACTCTGTCTTAAATTGGACAGTTGAACCTTAAAAGGTTTTTGAATAAATGGATGAAAATCTTTTAACGGAGACAA
AGGATGGTATTTAAAAATGTAGAACACAATGAAATTTGTATGCCTTGATTTTTTTTTTCATTTACACAAAGATTT
ATAAAGGTAAAGTTAATATCTTACTTGATAAGGATTTTTAAGATACTCTATAAATGATTAAAATTTTGAAGCTT
CCTAATCACTTTTCAGAGTATATGTTTTTTCATTGAGAAGCAAAATGTAACTCAGATTTGTGATGCTAGGAACAT
GAGCAAACTGAAAATTACTATGCACTTGTGAGAAACAATAAATGCAACTTGTGTG

1531/6881
FIGURE 1417

ATTCGGAGCTGCGGGAGCCGGGCTGGCAGGAGCAGGATGGCGGCGGCGGGCTGCAGGCGAGGCGCGCCGGGTG
CTGGTGTACGGCGGCAGGGGCGCTCTGGGTTCTCGATGCGTGCAGGCTTTTCGGGCCCCGCAACTGGTGGGTTGCC
AGCGTTGATGTGGTGGAGAATGAAGAGGCCAGCGCTAGCATCATTGTTAAATGACAGACTCGTTCAGTGAGCAG
GCTGACCAGGTGACTGCTGAGGTTGGAAAGCTCTTGGGTGAAGAGAAGGTGGATGCAATTCTTTGCGTTGCTGGA
GGATGGGCCGGGGGCAATGCCAAATCCAAGTCTCTCTTTAAGAACTGTGACCTGATGTGGAAGCAGAGCATATGG
ACATCGACCATCTCCAGCCATCTGGCTACCAAGCATCTCAAGGAAGGAGGCCTCCTGACCTTGGCTGGCGCAAAG
GCTGCCCTGGATGGGACTCCTGGTATGATCGGGTACGGCATGGCCAAGGGTGCTGTTACCAGCTCTGCCAGAGC
CTGGCTGGGAAGAACAGCGGCATGCCGCCCGGGGCGAGCCGCCATCGCTGTGCTCCCGGTTACCTGGATAACCCG
ATGAACAGGAAATCAATGCCTGAGGCTGACTTCAGCTCCTGGACACCCTTAGAATTCCTAGTTGAACTTTCCAT
GACTGGATCACAGGGAAAAACCGACCGAGCTCAGGAAGCCTAATCCAGGTGGTAACCACAGAAGGAAGGACGGAA
CTCACCCAGCATATTTTTAGGCCTCATCTCAGTGCCTATGAGGGGCTGCCAGAAAAGTCACTAACCTGTCTCA
GTGTGGCCTTGTCCAGCCTTGTGTTTTCTGTAACCCCTGTTTGTGGTACGAGATAATGAGTCCTATTTTTCTCTC
ACATAATATGCATTTGCTCTCCTAGGACAGTGAATACATTTATGTGAAGTAAAGACATGCCGAGACTGGTGGCCT
GCAATAGCATCCGTTGATCTGTGTTAACTGCATAGGGAGGGCTCTGCATAGCACCTGCTATAGCGGTGTCATGT
TGGATCGCTTTTGAGTGTTCATCTGTCCTTGACAGTGGCTGTCATCTTGACTACTTTGTTGATTGTTGGTAT
TGGGGACATTTTAAAGGCTGAGTTATTTTTGAATGTCATGTTTATGTCATAGACGTAGTTTTCGCATCCTTGAAT
TAACTGCCTTAACTCCTTTTGTGGTATAAGCAAACTACATGGACTCTGTCCTGGTATCCTTTTCTGTGTGGT
TGCCCCGTGTCCTCTGGCCTAGGGTTAAGTGTGCAAGATACTACTCGTGAGTATTCAGAATGTTGTTCCCTAATA
AATGCACTTGTGTCTGTCTCTTTAATCAAATCACATCTTATATACAGCAGTCAGAGATGAGTATACTAGAATC
ATGGATTGCTGGAGGTCTTTAATCTGATGTTCTCAGAAGGGGCTGGATTTAAATCCTGAAATAAATATTTCAAC
AC

1532/6881
FIGURE 1418

ACAGTCCCTCCGGGTGGCGGGGCGCCCCGAGCGTGGCAGCGCGCTAGGCGGCAGCAGCGGGCGCGGAGCGGGGCG
CGGCCGCCGCGCGTTCCCTCTTGGCGGGGTTGGCCGGCCGGGGCGGGGCGCGCGCTCGGGCTCGAGGCATTTCGG
AGCTGCGGGAGCCGGGCTGGCAGGAGCAGGATGGCGGGCGGGCGGGCTGCAGGCGAGGCGCGCCGGGTGCTGGTG
TACGGCGGCAGGGGCGCTCTGGGTTCGATGCGTGACGGCTTTTCGGGCTCGCAACTGGTGGGTGGCCAGCGTT
GATGTGGTGGAGAATGAAGAGGCCAGCGCTAGCATCATTGTTAAAATGACAGACTCGTTCACTGAGCAGGCTGAC
CAGGTGACTGCTGAGGTTGGAAAGCTCTTGGGTGAAGAGAAGGTGGATGCAATTCTTTGCGTTGCTGGAGGATGG
GCCGGGGGCAATGCCAAATCCAAGTCTCTCTTTAAGAACTGTGACCTGATGTGGAAGCAGAGCATATGGACATCG
ACCATCTCCAGCCATCTGGCTACCAAGCATCTCAAGGAAGGAGGCCTCCTAACCTTGGCTGGCGCAAAGGCTGCC
CTGGATGGGACTCCTGGTATGATCGGGTACGGCATGGCCAAGGGTGCTGTTACCAGCTCTGCCAGAGCCTGGCT
GGGAAGAACAGCGGCATGCCGCCCCGGGCGAGCCGCCATCGCTGTGCTCCCGGTTACCCTGGATACCCCGATGAAC
AGGAAATCAATGCCTGAGGCTGACTTCAGCTCCTGGACACCCTTAGAATTCCTAGTTGAAACTTTCCATGACTGG
ATCACAGGGAAAAACCGACCGAGCTCAGGAAGCCTCATCTCAGTGCCTATGAGGGGCCTGCCAGAAAAGTCACTA
ACCTGTCTCAGTGTGGCCTTGTCAGCCTTGTTGTTTTCTGTAACCCCTGTTTGIGGTACGAGATAATGAGTCCTA
TTTTTCTCTACATAATATGCATTTGCTCTCCTAGGACAGTGAATACATTTAIGTGAAGTAAAGACATGCGAGA
CTGGTGGCCTGCAAATAGCATCCGTCAATCTGTGTTAACTGCATAGGGAGGCTCTGCATAGCACCTGCTATAGCG
GTGTCATGTTGGATCGCTTTTGTGACTGTTTCATCTGTCTTGACAGTGGCTGTCATCTTGACTACTTTGTTGATT
TGTTGGTATTGGGGACATTTTAAAGGCTGAGTTATTTTGAATGTCATGTTTATGTCATAGACGTAGTTTTCGCA
TC

1533/6881
FIGURE 1419

GGCACGAGCGCAACCACAGCGCGCAGGGCAGGCGCGAGCTGGCCTCTGAGCCCCGGCCTCGGACCGCCCACTCCA
CTCCCGGCACGCCCCGGTGCCGCTTCCGGCTCCAGTCCCCGGGCTCGGCCTCGGCGAGGTGTAATTCGCAGCGCG
GGCCGGCCCCGGAGGCTCTCGGCGAGCGCGCGGTAACAAGTGGGCGAGGATGCCGTACGAGATCAAGAAGGT
GTTCCGCAGCCTCCCGCAGGTGGAGAGGGGCGTCTCCAAGATCATCGGCGGCGACCCCTAAGGGCAACAATTTTCT
GTACACCAATGGAAAGTGCCTCATCTAAGGAACATCGACAACCCAGCCCTTGCTGACATCTACACAGAGCACGC
CCATCAGGTGGTGGTGGCCAAGTATGCGCCAGCGGATTCTACATTGCCTCCGGAGATGTGTCTGGGAAGCTGAG
GATCTGGGATACCACGCAGAAGGAGCACCTGTTGAAGTATGAGTACCAGCCCTTCGCTGGGAAGATCAAAGACAT
TGCTTGGAAGTGAAGACAGTAAGAGGATCGCCGTGGTTCGGGGAAGGAAGGGAGAAGTTTGAGCAGTCTTCTCTG
GGATAGTGGCTCTTCTGTGGGCGAGATTACAGGACACAACAAGTCATCAACAGCGTGGACATCAAGCAGAGCCG
GCCATACCGGCTGGCCACGGGAAGCGATGATAACTGCGCGGCATTCTTTGAGGGACCCCCATTCAAGTTCAAGTT
CACAATTGGCGACACAGCCGCTTTGTCAACTGTGTGCGATTCTCTCTGATGGGAACAGATTTGCCACAGCCAG
TGCTGACGGCCAGATATACATCTATGACGGGAAGACTGGGGAGAAGGTGTGCGCGCTGGGCGGAAGCAAGGCCCA
CGACGGTGGGATTTACGCAATTAGTTGGAGTCCCGACAGCACCCATTGCTTCTGCTTCTGGGGACAAAACCTTC
CAAGATTTGGGACGTGACGTGAACCTCCGTGGTTCAGCACATTTCCCATGGGCTCCACGGTTCTGGACCAGCAGCT
GGGCTGCCTATGGCAGAAGGACCACCTGCTCAGTGTCTCCCTGTCCGGGTACATCAACTATCTGGACAGAAACAA
CCCCAGCAAGCCCCCTGCACGTATCAAGGGTCACAGTAAATCGATCCAGTGTCTGACGGTGCATAAAAAACGGCGG
CAAGTCTCTACATTTACTCTGGGAGCCACGACGGACACATTAATTACTGGGATTCAGAGACGGGGGAGAACGACTC
CTTCGCTGGGAAAGCCACACGAACCAGGTGTCCAGGATGACCGTGGATGAGTCGGGCGAGCTCATCAGCTGCAG
CATGGACGACACCGTGCCTGTACACCAGCCTCATGCTGCGGGACTACAGCGGACAAGGAGTTGTGAACTGGACGT
TCAGCCAAAGTGCCTAGCCGTGCGCCCCGGGGGATACGCCGTGGTGTGCTGATTGGACAGATTGTCTCTGTGAA
GGATCAGAGGAAGTGCTTCAGCATCGACAACCCCGGCTACGAGCCGAAGTTGTGGCAGTGCACCCCGCGGGGA
CACGGTGGCAATTGGGGGTGTGGACGGCAACGTCCGCTGTATTCCATCCTGGGCACCACGCTGAAGGATGAGGG
CAAGCTCCTAGAGGCCAAGGGCCCCGTGACCGACGTGGCCTACTCCACGACGGCGCCTTCTCGCGGTGTGCGA
CGCCAGCAAGGTGGTCACAGTGTTCAGCGTTGTGACGGCTACTCGGAGAACAATGTTTTTATGGACACCATGC
AAAAATCGTGTGCTGCTGGCCTGTGCTCCAGACAATGAACACTTTGCTCCGGTGGCATGGACATGATGGTGTATGT
TTGGACCCCTGAGTGACCCGGAACACAGAGTCAAGATCCAAGATGCACACCGGCTGCACCATGTGACGAGCCTGGC
CTGGCTGGACGAGCACACGCTGGTCACGACCTCCCATGATGCCTCTGTCAAGGAGTGGACAATCACCTACTGAGG
AGCCCCACCCCGCCTCTGGATGGACCGAATCAGGCACTAGAGTTTAACTGCAGCGGAACATGTCAATTTCTCTAT
TTCTGTGACGCGCCCCATGCCCCACCCACCAAGAGGCAGGAGGGCCAGTCATGACCCCTCGTCTCTGCAG
GGTGTCTGTACAGTTCTTCTGAAAGCTTTAGACAGTAACAGTTTGCACATGAAAAATAAGCGAGCACCTAAAC
AATGTGTGGAGCATAACTAAACCCACAGCCCAACCAACCTTGAGAATGCGAAACATTCCAGAGGCAGTAGCCT
CCAAAGCACACAGAGCCCCTGGCCCCGCGCGGCTCTCACTATCTGTCAGGGGAGGTGTACAGGTGAATGAGCC
GGGGGGCTCATGTTCTGCTGCAGAACATTTCTGTACTAGTGAGAAGAGGGAATATGCATTGCAGTTTCAGCAA
GCCGGAATTCTGTGTTGAACAGATGTCTGTCTCCCTAGTGTGTGACTCACACCTTGTGGCTGCCTTCAGAGCGCC
ACCTCCAGATCAGATGGGGACACACAACCCCTGGATATGTTTCATTGTCAGATTTTGTGCTTGATTTTAAAGATG
GAATTGTGGGTATCTTTCTTTTTTTTAAATGTATCTTAAGTGTGCTGCTAGTGTGTTTACAACTAGTGCCTTG
ACGGCACCGTGTCCAAGTTTTTGAACCCCTGTTAGCCAGACCGAGGTGTCTGGTACCCTTTCACCATCATGC
TTTGATGTTCCCTGTCTTTCCCTCTTCTGCTCTCAAGAGCAAAGGTTAATTTAAGGACAAAGATGAAGTCACTG
TAAACTAATCTGTCATTGTTTTTACCTTCCTTTTCTTTTTCAGTGCAGAAATTAAGTAAGTATAAAGCACCGT
GATTGGGAGTGTGTTTGCCTGTGTCGGAATCACTGGTAAATGTTGGCTGAGAACAATCCCTCCCCTTGCACTTGT
GAAACACTTTGAGCGCTTTAAGAGATTAGCCTGAGAAATAATTAATATCTTTTCTCTCAAAAAAAAAAAAAA
AAAA

1534/6881
FIGURE 1420

MPYEIKKVFASLPQVERGVSKIIGGDPKGNNFLYTNGKCVILRNIDNPALADIYTEHAHQVVVAKYAPSGFYIAS
GDVSGKLRWDTTQKEHLLKYEYQPFAGKIKDIAWTEDSKRIAVVGEGREKFGAVFLWDSGSSVGEITGHNKVIN
SVDIKQSRPYRLATGSDDNCAAFFEGPPFKFKFTIGDHSRNVVCFSPDGNRFATASADGQIYIYDGKTGEKVC
ALGGSKAHDGGIYAIWSPDSTHLLSASGDKTSKIWDVSVNSVVSTFPMGSTVLDQQLGCLWQKDHLVSVLSGY
INYLDNRNPSKPLHVIKHSKSIQCLTVHKNGGKSYIYSGSHDGHINYWDSETGENDSFAGKGHTNQVSRMTVDE
SGQLISCSMDDTVRYTSLMLRDYSGQGVVKLDVQPKCAVGPGGYAVVVCIGQIVLLKDQRKCFSIDNPGYEPEV
VAVHPGGDTVAIGGVDGNVRLYSILGTTLKDEGKLEAKGPVTDVAYSHDGAFLAVCDASKVVTVFSVADGYSEN
NVFYGHAKIVCLAWSPDNEHFASGGMDMMVYVWTLSDPETRVKIQDAHRLHHVSSLAWLDEHTLVTTSHDASVK
EWTITY

1535/6881
FIGURE 1421

GGCACGAGCGCAACCACAGCGCGCAGGGCAGGCGCGAGCTGGCCTCTGAGCCCCGGCCTCGGACCGCCCACTCCA
CTCCCGGCACGCCCCGGTGCCGCCTTCCGGCTCCAGTCCCCGGGCTCGGCCTCGGCGAGGTGTAATTCGCAGCGCG
GGCCGGCCCCGGAGGCTCTCGGCGAGCGCGGCGCGGTAAACAAGTGGGCGAGGATGCGGTACGAGATCAAGAAGGT
GTTCCGCCAGCCTCCCGCAGGTGGAGAGGGGCGTCTCCAAGATCATCGGCGGCGACCCTAAGGGCAACAATTTCT
GTACACCAATGGAAAGTGCCTCATCTAAGGAACATCGACAACCCAGCCCTTGCTGACATCTACACAGAGCACGC
CCATCAGGTGGTGGTGGCCAAAGTATGCGCCAGCGGATTCTACATTGCCTCCGGAGATGTGTCTGGGAAGCTGAG
GATCTGGGATACACGCAGAAGGAGCACCTGTTGAAGTATGAGTACCAGCCTTTCGCTGGGAAGATCAAAGACAT
TGCTTGGACTGAAGACAGTAAGAGGATCGCCGTGGTGGGGAAGGAAGGGAGAAGTTTGAGCAGTCTTCCTCTG
GGATAGTGGCTCTTCTGTGGGCGAGATTACAGGACACAACAAGTCATCAACAGCGTGGACATCAAGCAGAGCCG
GCCATACCGGCTGGCCACGGGAAGCGATGATAACTGCGCGGCATTCTTTGAGGGACCCCATTCAGTTCAAGTT
CACAATTGGCGACCACAGCCGCTTTGTCAACTGTGTGCGATTCTCTCTGATGGGAACAGATTGCGCACAGCCAG
TGCTGACGGCCAGATATACATCTATGACGGGAAGACTGGGGAGAAGGTGTGCGCGCTGGGCGGAAGCAAGGCCCA
CGACGGTGGGATTTACGCAATTAGTTGGAGTCCCGACAGCACCCATTGCTTTCTGCTTCTGGGACAAAACTTC
CAAGATTTGGGACGTGACCGTGAACCTCCGTGGTCAGCACATTTCCATGGGCTCCACGGTCTGGACAGACGT
GGGCTGCCTATGGCAGAAGGACCACCTGCTCAGTGTCTCCCTGTCCGGGTACATCAACTATCTGGACAGAAACAA
CCCCAGCAAGCCCCCTGCACGTCATCAAGGTCACAGTAAATCGATCCAGTGTCTGACGGTGCATAAAAAACGGCGG
CAAGTCTTACATTTACTCTGGGAGCCACGACGGACACATTAATTACTGGGATTACAGACGGGGGAGAACGACTC
CTTCGCTGGGAAAGGCCACAGAACAGGTGTCCAGGATGACCGTGGATGAGTCCGGGACGCTCATCAGTGCAG
CATGGACGACACCGTGCCTGACACAGCCTCATGTGCGGGACTACAGCGGACAAGGAGTTGTGAACTGGACGT
TCAGCCAAAGTGCGTAGCCGTGCGCCCCGGGGGATACGCCGTGGTGTGTCATTGGACAGATTGTCTGTGAA
GGATCAGAGGAAGTGCTTCAGCATCGACAACCCCGGCTACGAGCCCGAAGTTGTGGCAGTGCACCCCGCGGGGA
CACGTGGCAATTGGGGGTGTGGACGGCAACGTCCGCTGTATTCCATCCTGGGCACACGCTGAAGGATGAGGG
CAAGCTCCTAGAGCCAAGGGCCCCGTGACCGACGTGGCCTACTCCACGACGGCGCCTTCCTCGCGGTGTGCGA
CGCCAGCAAGGTGGTCACAGTGTTCAGCGTTGCTGACGGCTACTCGGAGAACAATGTTTTTTATGGACACCATGA
AAAAATAAGCGGAGCACCTAAACAATGTGTGGAGCATAACTAAAACCCACAGCCCAACCAAACTTGAGAATGCGA
AACATTCAGAGGCAGTAGCTCCAAAGCACACAGAGCCCCGCGCGGCTCTCACTATCTGTGAGGGG
AGGTTGTACAGGTGAATGAGCCGGGGGCTCATGTTCTGCTGCAGAACATTTCTGTACTAGTGAGAAGAGGGA
ATATGCATTGCAGTTCAGCAAAGCCGGAATTCTGTGTGAACAGATGTCTGTCTCCCTAGTGTGTGACTCACACC
TTGTGGCTGCCTTCAGAGCGCCACCTCCAGATCAGATGGGGACACACAACCCCTGGATATGTTTCATTGTGAGAT
TTTGTGCTTGATTTTAAGAATGGAATTGTGGGTATCTTCTTTTTTTTTTAATGTATCTTAAGTGTGCTGTCA
GTGTTTACAACTAGTGCCTTACGGCACCGTGTCCAAGTTTTTGAACCCCTTGTTAGCCAGACCGAGGTGTCTT
GGTCACCGTTTCACCATCATGCTTTGATGTTCCCTGTCTTTCCCTCTTCTGCTCTCAAGAGCAAAGGTTAATTT
AAGGACAAAGATGAAGTCACTGTAAACTAATCTGTGATTGTTTTTACCTTCCTTTTCTTTTTCAGTGCAGAAAT
AAAAGTAAGTATAAAGCACCGTGATTGGGAGTGTGTTTTCGTGTGTCGGAATCACTGGTAAATGTTGGCTGAGAA
CAATCCCTCCCTTGCACTTGTGAAAACACTTTGAGCGCTTTAAGAGATTAGCTGAGAAATAATTAATATCTT
TTCTCTTCAAAAAAAAAAAAAAAAAA

1536/6881
FIGURE 1422

MPYEIKKVFASLPQVERGVSKIIGDPPKGNFLYTNGKCVILRNIDNPALADIYTEHAHQVVVAKYAPSGFYIAS
GDVSGKLRIWDTTQKEHLLKYEQPFAGKIKDIAWTEDSKRIAVVGEGREKFGAVFLWDSGSSVGEITGHNKVIN
SVDIKQSRPYRLATGSDDNCAAFFEGPPFKFKFTIGDHSRNVNCRVSPDGNRFATASADGQIYIYDGKTGEKVC
ALGGSKAHDGGIYAIWSPDSTHLLSASGDKTSKIWDVSVNSVVSFTPMGSTVLDQQLGCLWQKDHLLSVLSGY
INYLDNRNPSKPLHVIKGHKSISQCLTVHKNGGKSYIYSGSHDGHINYWDSETGENDSFAGKGHTNQVSRMTVDE
SGQLISCSMDDTVRYTSLMLRDYSGQGVVKLDVQPKCVAVGPGGYAVVVCIGQIVLLKDQRKCFSIDNPGYEPEV
VAVHPGGDTVAIGGVVDGNVRLYSILGTTLKDEGKLEAKGPVTDVAYSHDGAFLAVCDASKVVTVFSVADGYSEN
NVFYGHHEK

1537/6881
FIGURE 1423

ATTTTAGCTGTTGGTTCCGGCCGCACCGTGTGGGCTGTAGTAGCGGGAGGGGTGGGGTCTCTCCAGAGTTAAGTG
GCTGTCTCGACTGTGCCCATACAGCAGCCAGCTTTCTTCTTAATAACTGCCCGTTCGAAGAGTGCAGGATGT
CCAAGCGGCACCGGTTGGACCTAGGGGAGGATTACCCCTCTGGCAAGAAGCGTGCGGGACCGATGGGAAGGATC
GAGATCGAGACCGGGATCGTGAAGATCGGTCTAAAGATCGAGACCGAGAACGTGATAGAGGAGATAGAGAGCGAG
AGAGGGAGAAAAGAAAGGAGAAGGAGTTGCGAGCTTCAACAAATGCTATGCTTATCAGTGTGGATTACACCTT
TGAAAGCTTCCCATTCAGCTCACTCAACCCACTCAGCACATTCAACGCATTCAACACATTCTGCTCATTCAACGC
ATGCCGGACATGCAGGTCACACGTCACCTCCACAGTGCATTAATCCGTTTACCAACTTACCCCATACTCCTCGAT
ACTATGATATTCTAAAGAAACGCTTTCAGCTCCCTGTTTGGGAATACAAGGATAGGTTTACAGATATTCTGGTTA
GACATCAGTCCCTTGTACTGGTTGGTGAGACTGGGTCTGGTAAACAACACAGATTCCACAGTGGTGTGTGGAGT
ACATGCGATCATTACCAGGACCCAAGAGAGGAGTTGCCTGTACCCAACCCAGGAGAGTGGCTGCAATGAGTGTGG
CTCAGAGAGTTGCTGATGAGATGGATGTGATGTTGGGCCAGGAAGTTGGTTACTCCATTGATTTGAAGACTGCA
GTAGTGCAAAAACCATTCCTTAAGTATATGACTGATGGGATGTTACTTCGTGAAGCTATGAATGATCCCTCCTGG
AGCGTTATGGTGTAATAATTCTTGATGAGGCTCATGAGAGGACACTGGCTACAGATATTCTAATGGGTGTTCTGA
AGGAAGTTGTAAGACAGAGATCAGATTTAAAGGTTATAGTTATGAGCGCTACTCTAGATGCAGGAAAATTCCAGA
TTTACTTTGATAACTGTCTCTCCTAACTATTCTGGGCGTACACATCCTGTTGAGATCTTCTATACTCCAGAAC
CAGAGAGAGATTATCTTGAAGCAGCAATTGCAACAGTTATCCAGATTATATGTGTGAAGAGGAAGAGGGAGATC
TTCTTCTTTTCTAACTGGTCAAGAGGAAATTGATGAAGCCTGTAAGAGAATAAAGCGTGAAGTTGATGATTTGG
GCCCTGAAGTTGGTGACATTAAATCATTCCATTGTATTCTACACTTCCACCTCAGCAGCAGCAACGCATTTTG
AGCCTCCACCTCCCAAAAACAGAATGGAGCAATTGGAAGAAAGGTAGTTGTGTCAACTAACATAGCAGAGACGT
CTTTGACAATAGATGGTGTGGTGTGTTGTGATTGATCCTGGATTGCGAAACAGAAGGTCTACAATCCTCGAATCA
GAGTTGAGTCCCTTTTGGTGACAGCTATTAGTAAAGCTTCAGCTCAGCAAAGGGCTGGTTCGAGCTGGACGTACCA
GACCTGGAAAATGCTTCAGACTTTACACAGAGAAAGCTTATAAAACAGAAATGCAGGATAACACCTATCCTGAGA
TTTTGCGTTCTAATTTAGGATCAGTTGTGTTACAATTGAAGAACTTGGTATTGATGACTTGGTACATTTTGATT
TTATGGATCCACCAGCTCCTGAACTCTGATGAGAGCCCTGGAACCTTTGAATTACCTGGCTGCTTTAAATGATG
ATGGAGATCTGACTGAATTGGGATCCATGATGGCAGAGTTTCTCTAGATCCACAGCTCGCAAAAATGGTTATTG
CAAGTTGTGACTACAACCTGTTCTAATGAGGTCCTATCTATTACTGCTATGTTGTCAGTCCCACAGTGTGTTGTT
GCCCCACGGAGGCCAAGAAAGCCGCAGATGAGGCCAAGATGAGATTGCCCCACATAGATGGAGATCATCTGACAC
TGCTGAACGTCTACCATGCTTTTAAACAAAATCATGAATCGGTTTCAAGTGGTGTATGACAACCTTCATTAACATA
GGTCCCTGATGTCCGCAGACAATGTACGCCAGCAGCTATCTCGAATTATGGACAGATTTAATTTGCCTCGTCGAA
GTACTGACTTTACAAGCAGGGACTATTATATTAATATAAGAAAAGCTTTGGTTACTGGGTATTTTATGCAGGTGG
CACATTTAGAACGAACAGGGCATTACTTAACGTGTGAAGATAACCAGGTGGTTCAAGTTGCATCCCTCTACTGTT
TTGACCACAAACCTGAATGGGTGCTTTATAATGAGTTTGTCTAACAACAAAAGATTACATCCGGACATGTACAG
ATATCAAGCCAGAATGGTTGGTGAAAATTGCCCTCAATATTATGACATGAGCAATTTCCACAGTGTGAAGCAA
AGAGACAGTTGGACCGCATCATTTGCCAACTTCAATCCAAGGAATATTACAGTACTGAATTCAGTGTCTAGAAC
TGAAGTTATTGAGAGGACAGCTTTAAAAGATGAATGAACTCAAAAGTTTCGAGTTGTGCTCTTACGTTGGTTGGA
TAATGGCCTTTTATTGAAAGCTTTTTAATTTTCTTTACAGTAAATATTCCATTCTGATTTCAATAATTAACAT
TTATGCCTCCCTTTTGTGTTGACACTGTAGCTCATACTGGAAAAGTCGATCAATGTTTTGCAGTTTATTGAAAGT
AGTTCTATATATAACAATGTTATAAGCATTCTTTAGAAATGGTTGAAAATGCTTCTAAAATGTGATTATCGACC
ATGGTAIGCATGATCGTTGTAATTGTTGACATTCTTTTAGAAGTTGTGAAATGTTACAACCTGTGCTTATGTAG
ACACAATCTTCTGTCTCAGTACAGAGGCACTGACTTCAATAAAGTCTATTTATACT

1538/6881
FIGURE 1424A

AGGATTTTAAGAGTGGACTTGGTATTACCATAATTCCTATGAATGTAGCAAATGTAAAGCAAGTGGACCGAACTG
TGAAACAATCTTTTGAATAATCACTCCCTACAGGAGTTTCAGCTTTACAGCCGAGACTGAAAAGGAGAAACAAG
ACTGGATTGAAGCTGTGCAGCAATCAATAGCAGAACTCTCTCTGATTATGAAGTAGCTGAGAAGATTTGGTTCA
ATGAATCCAACAGGAGCTGTGCAGATTGTAAAGCCCCAGATCCTGACTGGGCATCCATCAATCTCTGTGTTGTCA
TCTGTAAGAAGTGTGCAGGACAGCATAGATCTTTAGGACCAAAGATTCCAAGGTTAGAAGTCTAAAAATGGATG
CTAGCATTTGGAGCAATGAACATCGAGCTTTTATTGTCTATTGGAACAAAAGAGCAAATGACTTTTGGGCTG
GTAATCTTCAAAAGGATGAAGAATTACATATGGACTCACCAGTAGAAAAGAGAAAAAACTTTATTACTCAGAAAT
ATAAAGAAGGAAAATTGAGAAAACTCTTTTGGCATCTCTACCAAAGAAGAATTAAATAAGGCTCTATGTGCTG
CTGTAGTGAAACCGGATGTTCTAGAAACAATGGCTTTGCTGTTTCAAGTGGAGCAGATGTCATGTGTGCCACCGGAG
ACCCCGTGATAGCACCCCTATCTGCTAGCCAAGAAAGCTGGGCAAAGTCTGCAAATGGAATTTCTCTACCATA
ACAAATTTCTCAGATTTCCCTCAACATGATATTCAATCCGAGGGTGTATTAAAGTCAAGAGTCTTCCAGTCCACAT
TCCTCTGTGACTTTTTATATCAAGCTCTTCTGCTGCTTCTAACTCTCTTTCAGAGAAAAAACTTTTAAAGAGA
CAAATAAAAAATGGTGTGTTTTTGAAGGAGGCTTCTTGAGTTACTATGAAAATGATAAGTCTACCACACCTAATG
GCACCATTAATATCAATGAAGTTATCTGCCTGGCTATACACAAAGAGGACTTCTATTAAATACTGGGCCATCT
TTATCTTTGAGATCTACTTACCCTCCGAACGTGTGTTTTTATTGGAGCTGAAACATCTCAAGCTCAAAGAAAAAT
GGACAGAGGCAATAGCCAAGCATTGTTTCCCTTATTGCTGAAAACCTTAACAGAAGCTGACTATGATTGATTG
GTCAACTCTTCTACAAAGACTGCCATGCCCTGGATCAGTGGAGAAAAGGCTGGTTTGCTATGGACAAATCCAGCT
TGCATTTTGCCTTCAAATGCAAGAAGTTCAAGGAGATAGAATGCATTAAGAAGACTGCAAGAGCTAACATCA
GCACAATGGTTCAAATGGGGAAAACTGGATGTTTTACTCTTGGTAGAAAAAGGGAGAACATTATACATCCATG
GGCATACCAAGTTGGATTTCACAGTCTGGCATACTGCAATTGAAAAAGCAGCAGGTACAGATGGTAATGCTTTAC
AAGATCAGCAGCTCAGCAAAAAATGACGTTCCCATATAGTGAACAGCTGTATAGCATTGTTACACAGTATGGTT
TAGGATGCAAAATATATCTATCAAAAGAATGGTGATCCTTTGCATATAAGTGAACCTCCTGGAGAGTTTCAAAAGG
ATGCAAGAAGCTTTAAATTGAGGGCTGGAAAACATCAGCTTGAAGATGTGACGGCTGTGTTGAAAAGTTTTCTCT
CTGACATTGATGATGCACTGCTTACTAAGGAGCTCTACCCATATTGGATCTCTGCTTTAGATACGCAAGATGACA
AGGAAGAATTAAAAAATATGGAGCATTATACGTTCTCTTCCAGGGGTCAACCGAGCAACACTAGCAGCTATCA
TTGAACACCTGTATAGGGTTTCAGAAATGCTCAGAAATCAATCACATGAATGCCATAATTTGGCCTTGGTCTTTT
CATCTGTTTGTGTTCAAACGAAGGGACAACTAGTGAAGAAGTGAATGTAATTGAGGACCTAATTAATAATTATG
TAGAAATATTGAGGTTAAAGAAGATCAAGTCAAAACAAATGGACATAGAAAATAGCTTTATTACCAAGTGGAAAG
ACACCCAAGTTTCCAGGCTGGAGATTTGTTAATTGAAGTATATGTAGAAAGGAAGGAACCCGACTGTAGTATTA
TAATTCGGATATCTCCTGTGATGGAAGCAGAAGAATTAATAATGATATATTAGCGATAAAAAATATTATTCCTA
CAAAAGTGATATTTGGGCCACATTTGAAGTCATTGAAAATGAAGAGCTAGAGCGTCTCTTCACTACAAGGAAA
ATGTACTGGAGCAGGTGCTTCCGTGGAGTTTATTAGCTGAACCTGGCTCTGCTTACCTGGTGGTGAAGAGATTCT
TAACCGCTGACACAATTAACACTGCAGTGACCGGAGTACACTGGGAAGCATCAAAGAAGGAATCTTGAAAATCA
AAGAAGAACCATCCAAAATACTATCTGGAAATAAGTTTCAAGACCGGTATTTTGTGTTTACGAGATGGGTTTTCTCT
TTCTTTTACAAGGATGTGAAGAGTAGTAAACATGACAGATGTTTTCTCTCAGTTCCATGAAGTTTTATCGTGGAG
TGAAAAAGAAAATGAAGCCTCCAACAAGCTGGGGATTGACCGCATATTCTGAGAAACATCACTGGCACCTGTGTT
GTGATAGTTTACGAACTCAGACGGAGTGGATGACCAGTATCTTTATTGCCCAGCATGAATATGATATATGGCCAC
CAGCTGGAAAGGAACGAAAACGTTCAATAACCAAAAAATCCCAAAATTTGGAGGTTTGCCTCTGATTCTATACAGC
ATGAGGGGAATGCAACCTTGGCCCGGAAAAATATTGAGAGTGCAAGAGCAGAACTTGAAGGCTGCGGCTCAGTG
AAAAGTGTGATAAAGAGTCCGTGGACTCTAGCTTAAAGGAGAGAGCTTCCATGGTGGCCCACTGCCTGGAGCACA
AGGACGATAAACTTCGAAATCGACCCCGAAAAACATCGGAGTTTCAACTGCCTGGAGGACACAGAGCCTGAAGCCC
CACTTGGGCAACCAAAAGGCCATAAAGGCCATAAGACATTGAGGAAGACTGAGGACAGGAATAGCAAAGCTACTT
TGGACTCTGATCATAAGTTACCATCAAGGGTAATTGAAGAACTTAATGTGGTCTACAACGGTCAAGAACCCTTC
CAAAAGAATTACAGGATGAGCAGATTTGAAGTAGGAAATAAATGAATTGCTCCCCAGATTATTTTTTTAATAT
TGTATGCAATCTTTATGTGTAACCTCCAAACTGAACTATAAGATAATTCATAAGAATTTGCCTATTGATAGGCAA
ATTTGTCTATGCTTAGGCATTTAAGGAGCATTTAAAAATATGTATATATGTGACTGAATGTAAGATTAACTTTAT
TTTGGTCTGAACAAACCTTGTAAGTTCCATTGTATTAACGTGTGTAAGAAGACATTGGGTTACTTAGGTGGTCA
GTCTTTTTAAAGTAGTTGTCTGTTAAGTGGTATAATTTATGAGCAGAAATCTCAAAGTGTACTGTATTGTATAAA

1539/6881
FIGURE 1424B

ATGCTGTGTTTAAATGAAGCCTAAGAACTATCTGTAACATATTTTGCACTTTGAGAAACCTTGTATATTAAATT
ACCATATGTTTTTAGGTTTACAGAAGTTCTACCTTAGGGAAAAGAAAGGGAAGTAAATTGAAAAAGGGGGAGAA
TTTATTGTAGTGGCTGCCTAAAAACCACTGGAGTTTTTAAAAGAAGCAAGGAGTTAAATGTCCTGCAAAACAAGG
AAGTGAGCTAAGATTCACTTAGTTCACTAATGACCAGAACTTGTCAATGAGAAACCACTTGTAAAGAAAAAGTC
CAGTGTATTTCTCAAGAGTAATATTTCGGCCAACAGATGTAAATAATAGCACTAGCCACTCTTATTAATATTTA
TAGTGTTAGAAAACCAGCCACATTACAGATTCACTACGTTTGAGCTCATTGTTGGTGGCTGCTAAGAGGAACTT
ACACTGCATTGGAGAGGTTGTGTACACAGGACCTGGCCTGGATGCTGATTGCACTGTCATTGTATGCAAGCATT
TGTCTTTTTTTCAGAATTTCTGACTATACTTTTGGTACGAACAAAATTCATCACCACAGGGTCCTGTTGTTTTGTT
TGATTTTTAGATTTTTTAAATTATTATTAAGGTTGTAATGTTTTTCTCCGAGTTGTCAGAAATAACTGGAAGAA
TACAATATATGGCCATTATGGAGCCAGGGGCTAGTTGGTGGTTTACTATACATTGGGGGCTACCTGGTCACATT
TAATCTAGGTTTTTTTTCTTTTTTAAAGTAAAGGTGTTGGTCTCTCCCTGTACTTATGAATAAGGACAAAGCCC
TATTTTTGTTTCCACATAAAGATCAGCTACTGAATTGGTGAATTTCCCTGACAGACAATGCTATCTAACCATAGTT
CATGTTAGGGGAAGCATTTTCCATCAGTTTCTTTAAATTTGGATTGTCIGGTGAGTTTTGATATTAACATTAT
GTAGCTAAGTTTTTTTTTTTAGCATTCTTTTTTATTTTCAATCTATATTCACAGGCCCATACTTCAGTCAGT
CCAATCATAGTACAGTGATGTGGTGGTAGATGCTATGAATTTCTTCATTGTAAAATACGGATCATTGTATTTG
GGGTGATAAAATAGTTCACCATGGGTATGAGATATTTATCTTTAAATCAAAGTAAATTAGAATTTTTTAAAAAGC
ACAAAAGTGCAGGACAGTTTATGAAATAGGTGGCACTATTAGGGAATCTTCCTTTAAAGCAAGAAATCATGTTAT
TTAGAAAGAAAACTAATCTTAAACATACTATTTCTAATAAATATTTATATTTTATGAAATAAAGAGGTATGTG
GAAATTAATATTTGGTGATGTTGGACAGTGGAAGTATCTAGAGTTTTTACCTGCCTTATCTGAATTCCTTCTTG
AACTTGAGCTTAACTCTAATAGCTGTTTCCCTTTCTATTCTGAACAAGTCTCCATTTTCAAGTGTGAGAG
ATAAGGGCTAATGATGACATCTCATTATTTTGGAGTAAACATTAAATTTGTTTTACAAGTCTACTTG

1540/6881
FIGURE 1425

TTCTTTCTTTGCTGCGTCTACTGCGAGAAATGAAGACTATTCTCAGCAATCAGACTGTCGACATTCCAGAAAAATGT
CGACATTACTCTGAAGGGACGCACAGTTATCGTGAAGGGCCCCAGAGGAACCCTGCGGAGGGACTTCAATCACAT
CAATGTAGAACTCAGCCTTCTTGGAAGAAAAAAGAGGCTCCGGGTGACAAATGGTGGGGTAACAGAAAGGA
ACTGGCTACCGTTCGGACTATTGTAGTCATGTACAGAACATGATCAAGGGTGTTACACTGGGCTTCCGTTACAA
GATGAGGTCTGTGTATGCTCACTTCCCCATCAACGTTGTTATCCAGGAGAATGGGTCTCTGTTGAAATCCGAAA
TTTCTTGGGTGAAAAATACATCCGCAGGGTTCGGATGAGACCAGGTGTTGCTTGTTTCAGTATCTCAAGCCCAGAA
AGATGAATTAATCCTTGAAGGAAATGACATTGAGCTTGTTTCAAATTCAGCGGCTTTGATTCAGCAAGCCACAAC
AGTTAAAAACAAGGATATCAGGAAATTTTGGATGGTATCTATGTCTCTGAAAAAGGAAGTGTTCAGCAGGCTGA
TGAATAAGATCTAAGAGTTACCTGGCTACAGAAAGAAGATGCCAGATGACACTTAAGACCTACTTGTGATATTTA
AATGATGCAATAAAAGACCTATTGATTGGACCTTCTTCTT

1541/6881

FIGURE 1426

MKTILSNQTVDIPENV DITLKGRTVIVKGPRTLRDFNHINVELSLLGKKKKRLRVDKWWGNRKELATVRTICS
HVQNMIGVTLGFRYKMRSVYAHFPINVVIQENGSLVEIRNFLGEKYIRRVMRPGVACSVSQAQKDELILEGND
IELVSNSAALIQQATTVKNKDIRKFLDGIYVSEKGTVQQADE

1542/6881

FIGURE 1427A

GTCCTTGCTTCTTTTTTCATTGATGTAATTTTTTTAACTTAATATGAAAACCTCTCCAAGTCTTGATCATCAGCC
AGGATTTTGCCACAGCAATTTTCATTCTCTTATCGGAGCTTGATGTGTCAAAGTATACTTCAGAGTGCAAACATT
AAGCAAGTAATATATTTTACCTACAGATACTTATGAAGACATTCTTTCGCTATCGTGAGTAAAAGTATATAAAGC
TGTTTCTAACTGAAAATGCTTGAAAATAAGCCTGTAATAGAAATATTTTTTCATTTTTTAAAAAAGGGCGGAATTC
CCAGACTGTCTTCGCTTCTTGCACTTCGCGGGAGAAGTTGTTGGCGGAATGGATCCTGAGCCTCGATAACAGA
TTCCTCAACCGGCCCCACCCGCCAGCCAGCCAGCGCCTTCATCCTGGGGCTGCGATGGACATTGCGAAATTCCTTG
GAGTAATACCAAGTGGAAGAACTTGTAAGTGAAACAGTAAAGAAGATGAGAAAACAAAGTCTGATGAAGAAA
CTTTAAAGCAAAGAAAGGAATAAAGGAAATCAAGGTAAATAGCTCCCGTAAAGAGGATGACTTCAAACAAAAGC
AACCAAGCAAGAAAAAGAGGATCATCTATGATTAGATTAGAGTCAGAGGAGACGTTGAGGTAAAAATGCCA
AAAAGCCACCAGAAAACTGCCAGTATCTTCTAAACCTGGTAAAATTCACGGCAGGATCCTGTTACATACATTT
CAGAAACAGATGAAGAAGATGACTTTATGTGTAAGAAGCGGCCTCTAAATCAAAGAGAATGGAAGATCTACAA
ATAGTCATCTTGGAACATCAAACATGAAAAAGAATGAAGAAAACACTAAGACCAAGAATAAGCCTTTATCACCAA
TAAACTTTACACCACATCAGTACTTGATTATTTTGGAACTGGAAGTGCCAAAGATCTAATAAGAAGATGGTGG
CAAGCAAAGAAAAGAGCTTTACAAAATACAGATGAGTCTGGATTAAATGATGAAGCCATCGCCAAGCAATTAC
AGCTTGATGAAGATGCGGAGCTGGAGAGGCAGTTGCATGAAGATGAAGAGTTTGCCAGAACATTAGCCATGTTGG
ATGAAGAACCAGAACCAAAAAGGCTCGAAAGGACACAGAAGCGGGAGAAACGTTTTTCATCTGTCCAAGCCAATT
TAAGTAAAGCAGAAAAACATAATATCCTCATAAAGTAAAAACAGCACAAAGTTTCAGATGAAAGAAAGAGCTACA
GTCCTAGGAAGCAAAGTAAATATGAAAGTTCAAAGAATCTCAGCAACATTCCAAGTCATCAGCTGACAAAAATAG
GAGAAGTCTCTTCTCCAAGGCCAGTTCTAAGCTGGCAATTATGAAAAGAAAAGAAGAGAGCTCTTATAAAGAAA
TAGAGCCTGTGGCCTCAAAAAGAAAAGAAAATGCCATTAAATTGAAAGGAGAGACAAAACTCCTAAGAAAACCA
AAAGTTCTCCAGCTAAAAAGAGTCTGTAAGTCTGAAGATTCTGAAAAGAAACGCACTAATTATCAAGCTTATC
GAAGCTACTTAATCGAGAAGTCCCAAGGCTCTGGGCTCCAAAGAAATACCAAAGGGAGCTGAAAATTGCTTGG
AAGGCCTTATATTTGTAATCACAGGCGTGCTGGAGTCTATTGAACGAGATGAGGCCAAGTCTCTAATTGAACGTT
ATGGGGGAAAAGTAACAGGAAATGTCAGCAAGAAAACAAATTATCTTGTCATGGGTCTGTATAGTGGACAGTCCA
AGAGTGATAAGGCCCGAGCCTTGGGGACAAAAATTATTGATGAAGATGGCCTGTTGAATCTGATTGCGGACTATGC
CAGGCAAGAAATCCAAGTATGAAATAGCAGTTGAACTGAGATGAAGAAAGAGTCCAACTGGAGAACACCCCC
AAAAAATGTCCAAGGAAAAAGAAAAATTAGTCCATCTAAAAAGGAATCAGAATCTAAAAAGAGCAGGCCGACTT
CCAAAAGGGACAGTTTGGCAAAGACAATAAAAAAGGAAACAGATGTGTTTTGGAAAAGCCTGGATTTCAGGAGC
AGGTGGCTGAGGAGACAAGTGGTGACAGCAAGGCTAGGAATTTGGCTGATGACAGCAGTGAAGAACAAAGTGGAAA
ATTTGCTCTGGGTGGATAAATATAAGCCAACCTCGCTCAAGACCATAATTGGACAGCAAGGTGACCAGAGCTGTG
CCAACAACTCCTACGCTGGCTCCGAACTGGCAAAAGAGTTCTTCCGAAGATAAAAAACACGCAGCAAAGTTTG
GTAAATTTCCGGCAAAGATGATGGCTCTAGTTTTAAAGCAGCGTTGCTGTCAGGCCCTCTGGTGTGGCAAAA
CCACCACAGCTTCCCTGGTGTGTGTCAGGAGTTGGGATACAGCTACGTGGAAGTGAATGCAAGTGACACCCGGAGTA
AGAGCAGTTTGAAGGCGATTGTTGCTGAGTCACTGAACAATACCAGCATCAAAGGCTTTTATTCAAATGGAGCAG
CCTCTTCAGTAAGCAGCAACATGCTCTCATCATGGATGAAGTAGATGGCATGGCAGGCAATGAGGATAGGGGAG
GAATTCAGGAATTAATTGGCCTGATAAAACATACTAAAATCCATTATTGTTGATGTGCAATGATAGAAATCATC
CCAAGATTCGCTCTCTGGTTCAATTATGTTTTGATCTTCGTTTTCAAAGACCTCGGGTTGAACAGATTAAGGGTG
CTATGATGTCTATTGCATTTAAAGAAGTTTTAAAGATTCCCCCTCCAGCTATGAATGAAATAATTTTGGGAGCCA
ATCAAGATATCAGACAGGTTTTACATAATCTGAGTATGTGGTGTGCACGAAGTAAAGCATTAACTATGACCAGG
CCAAAGCTGATTTCTACAGAGCCAAAAGGATATCAAATGGGCCATTGATGTTGCCCGGAAAGTGTGTCAG
CTGGAGAGGAGACTGCTCACATGTCACTTGTGGACAAGTCAGATCTCTTTTTTCATGATTATTCAATAGCACCCC
TCTTCGTCCAGGAAAATTACATACACGTGAAGCCTGTAGCAGCAGGGGTGACATGAAAAAGCACCTGATGCTTT
TAAGCAGACAGCAGCAGCATATGCGATGGTGACCTAGTGACAGCCAGATCCGGAGTAAGCAAACTGGAGTC
TTCTGCCTGCGCAGGCCATTTATGCCAGTGTTCTTCCTGGAGAGTTGATGAGGGGTACATGACCCAGTTTCCCA
CCTTCCCAAGCTGGCTGGGGGAAGCACTCGTCTACAGGCAAACATGATCGTATTGTTTCAAGGACCTGGCCTTGATA
TGAGTCTCAGAACTTACTCCAGCAAAGGACTGTAAACATGGATTATCTGTCGCTTCTAAGGGATGCACTTGTAC
AGCCCTTGACCTACAAGGAGTAGACGGAGTACAGGATGTTGTTGCACTTATGGACACATATTATTTGATGAAAG
AAGACTTTGAGAAATCATGGAATCAGCAGCTGGGGTGGCAAACCTAGTCCCTTTTCAAAGCTGGATCCCAAGG

1543/6881
FIGURE 1427B

TGAAAGCAGCCTTCACAAGAGCTTACAATAAGGAAGCCCACCTTACTCCATACTCACTTCAAGCTATAAAGGCAT
CTAGACACAGCACAAAGCCCATCCCTGGATTTCGGAATACAATGAAGAATTAAATGAAGATGACTCTCAATCTGATG
AGAAAGACCAAGATGCTATAGAACTGATGCCATGATCAAGAAAAAGACAAAATCTCAAAGCCTTCAAACCAG
AAAAAGATAAGGAGCCCAGAAAAGGAAAAGGAAAAAGTTTGAAGAAATGAAACCATTTTTCACTAGCGACAGCCA
CTTTTTACTCTCCCTCCTGACCAGTCCAGCTGGTCTAGAGAAAGCCTTGTTTTTTCCCAGAGCAACCATGTTTTA
GCATAATGGGATGACCTGGTGTCCCATTATAAATAAAGGGTGGTATGGCTAGAAGGGTATGAGCAGTAGGCTTAT
GTACACCTCTTATAGAGGTTGATAGGACTGCTTGGGTCTCCACTGTCTCTGTCAATCTAGTTAGACGTGCTTC
TGAATGACTGTAGAATTGGAAGTAGAACTACACCTGGGCTTTGGAGTCAGATTTTAGTTAACAATAATGAGCCT
GGAGCAGTAGTACTAAGGCGTCTTTTGTAGGCTTAAGAATTTATCCTAATGGCCTTTATAGGACCAATGCTGATT
TTTTTTAAAGGCAGTTCCTATTATGTGGTGAAATTTGTAAATAAATGATTATACAAAACAGTCACCACCTAGAA
CTGGGTATTCTTTGTACATTGTCAGATATCTTTCAAAGTATAAATTAGGAATAAAAATGTTCCACATGATATGTG
TACAAATTCTTTTTAAGATTGTCATCTTGTACAGCAAAATATTATGTTGGTATATTACTTCCTTATTAATTTGCA
AATGATTGGATTAAAAAGCTCACTGTATTCTTACTAACCTGTTGTGTGAAACATAACATTGGCAGTCGAGGAG
TCAGAACTCGGATTCCCAGCCTCACTCCCTCTGTGTGTGTTGACCACGTCTCTGCTGTGAATAGGATTTTCATGCA
GTGGTCTGTTATGGGGCTTTGCAGCGTGGGGGGCTGCAGAAGATTCTCAGACATTCTTATCCTTCTGGAGTCTCA
ACCCATCAGGTTAGACCAAGTAGGAACCAGGCTGGGTGAGGCTCTTAATTTCACTACGGTGGGGGACAAAATGAA
CACTGGCTTTTGTTCACTTTGCCCTGAGAGATCTAGTCTGTCTGTGATGGCTTCCACAAACCTGTTGGAAG
TTTGGGTATTCTTATAACTGTATGTGTTGAGTGGCCGTGACGTATGGACCTAGCCTGGAATTTAGATGTCTAGC
TATTTTTTAATCTTGTGGTAAATGCTCAGAGGTCTGTGCTACCTCTGTGAGGTATATACTAAAATGAATGTAAA
ATAAGGATCGTATTCCCTGCTTTAAGGAAGTGGTAGTCTTGTGTTGGGTGATGAGACAAAGTTCTTGAGACATTTA
AACTGTATTACCAGTGTGAAAAATGTCATTTATGGAGATTAATTCATTATGGAAATAAAACATTGCCTAAGCCC
TTGCCTGCTG

1544/6881

FIGURE 1428

MDIRKFFGVIPSGKKLVSETVKKNEKTSDEETLKAKKGIKEIKVNSSRKEDDFKQKQPSKKKRIIYDSDSESEE
TLQVKNNAKPPPEKLPVSSKPGKISRQDPVTYISETDEEDDFMCKKAASKSKENGRSTNSHLGTSNMKKNEENTKT
KNKPLSPIKLTPTSVLDYFGTGSVQRSNKKMVASKRKELSQNTDESGLNDEAIAKQLQDDEAELERQLHEDEEF
ARTLAMLDEEPKTKKARKDTEAGETFSSVQANLSKAEEKHYPHKVKTAVSDERKSYSPRKQSKYESSKESQQHS
KSSADKIGEVS SPKASSKLAIMKRKEESSYKEIEPVASKRKENA IKLG ETKTPKKTSSPAKKE SVSPEDSEKK
RTNYQAYRSYLNREGPKALGSKEIPKGAENCLEGLIFVITGVLESIERDEAKSLIERYGGKVTGNVSKKTNYLVM
GRDSGQSKSDKAAALGTKI IDEG LLNLIRTMPGKKSKYEIAVETEMKKESKLERTPQKNVQGKRKISPSKKESE
SKKS RPTSKRDSLAKTIKKETDVFWKSLDFKEQVAEETSGDSKARNLADDSENKVENLLWVDKYKPTSLKTIIG
QQGDQSCANKLLRWLRNWQKSSSEDKKHAAKFGKFSGKDDGSSFKAALLSGPPGVGKTTTASLVCQELGYSYVEL
NASDTRSKSSSLKAIVAESLNNTSIKGFYSNGAASSVSTKHALIMDEVDMAGNEDRGGIQELIGLIKHTKIPIIC
MCNDRNHPKIRSLVHYCFDLRFQRPRVEQIKGAMMSIAFKEGLKIPPPAMNEIILGANQDIRQVLHNLMSWCARS
KALTYDQAKADSHRAKDKIMGPF DVARKVFAAGEETAHMSLVDKSDLFFHDYSIAPLFVQENYIHVKPVAAGGD
MKKHLMLLSRAADSICDGLVDSQIRSKQNWSLLPAQAIYASVLPGELMRGYMTQFPTFPSWLKGHSSTGKH DRI
VQDLALHMSLR TYSSKRTVNMDYLSLLRDALVQPLTSQGV DGVQDVVALMDTY YLMKEDFENIMEISSWGGKPS
FSKLDPKVKA AFTRAYNKEAHLTPYSLQA IKASRHSTSPSLDSEYNEELNEDDSQSDEKDQDAIETDAMIKKKTK
SSKPSKPEKDKEPRKGKGKSSK

1545/6881
FIGURE 1429A

ATAGTTCGCGTAGCGGCTCGAGCGTGGAGATGAAGCGTATTTTCTCACTGCTAGAAAAGACTTGGCTTGGCGCAC
CAATACAGTTTGGCTGGCAAAAAACATCAGGAACTACCTTGCAGTAACAGGAGCTGATTATATTGTGAAAATCT
TTGATGCCCATGGTCAAAAAAGAAGTGAATTAACCTTACCTGGTAACGTGTGTGCCATGGATTGGGATAAAGATG
GAGATGTCCTAGCAGTGATTGCTGAGAAATCTAGCTGCATTATCTTTGGGATGCCAACACAAATAAGACCAGCC
AGTTAGACAATGGCATGAGGGATCAAATGTCTTCTTCTTTGGTCAAAAGTTGGAAGTTTCTGGCTGTTGGAA
CTGTTAAAGGAAATTTGCTTATTTATAATCATCAGACATCTCGAAAGATTCCGTGCTTGGAAAACATACTAAGA
GAATCACTTGTGGATGTTGGAATGCAGAAATCTGCTTGCTTTAGGTGGTGAAGATAAAATGATTACAGTTAGTA
ATCAGGAAGGTGACACGATAAGACAGACACAAGTGAGATCAGAGCCTAGCAACATGCAGTTTTCTTGATGAAGA
TGGATGACCGAACCTCTGCTGCTGAAAGCATGATAAGTGTGGTGTGGCAAGAAAACCTTTGTTTTTTTAAATC
TGAATGAACCAGATAACCCAGCTGATCTTGAATTTACAGCAGGACTTTGGCAACATTGTCTGCTATAATTGGTATG
GTGATGGCCGCATCATGATTGGTTTTTCATGTGGACATTTTGTGGTCATTTCTACTCATACTGGAGAGCTTGGTC
AAGAGATATTTACAGGCTCGTAACCATAAAGATAATCTAACCAGCATTGCAGTATCAGAGCTCTTAACAAAGTTG
CTACATGTGGAGATAACTGCATTAAATCCAAGACTTGGTTGACTTAAAGACATGTATGTTATACTCAACCTGG
ATGAGGAAAAATAAGGATTGGGTACCTTGTCTGGACTGATGATGGCCAGTTGCTAGCACTCTTACCCAAAGGG
GCTCACTTCATGTTTTCTGACCAAGCTTCCCATACTTGGGGATGCCTGCAGCACAAGGATTGCCATCTCACCT
CCCTCCTTGAAGTCACCGTAGCCAACCTGTGTAAGGAGAGCTACCAATCACAGTTCTGTTGATGTGGAACCCA
ACTTTGTGGCAGTAGGTCTTTATCATCTGGCTGTAGGAATGAATAATCGAGCTTGGTTTTATGTCTTGGAGAAA
ATGCTGTGAAAAAATTGAAAGATATGGAGTATCTGGGAACAGTAGCCAGTATTTGCCTTCATTCTGACTATGCTG
CTGCATTTTTGAAGGCAAAGTCCAGTTACATTTGATAGAAAGCGAAATCTTGGATGCTCAAGAAGAACGTGAGA
CTCGGCTTTTCCAGCAGTGGATGATAAGTGCCGTATCTTATGCCATGCCTTAACCTAGTGATTTCCTCATCTATG
GTACAGATACTGGTGTCTGTTTCACTATTTCTACATTGAAGACTGGCAATTCGTTAATGATTATCGACATCCTGTCA
GTGTGAAAAAGATTTTTCCCGACCCAAATGGGACCAGATTAGTTTTTCATTGATGAAAAAGTGATGGATTTGTTT
ACTGTCCAGTCAATGACGCTACCTATGAGATTCCAGATTTTTACCAACCATTAAGGTTCTTTGGGAAAACT
GGCCAATGGATAAAGGTGTATTTATTGCTTATGATGATGATAAGGTGTACACTTATGTCTTTACAAGGACACTA
TACAAGGAGCCAAGGTATTTTGGCTGGTAGCACCAAGTTCTTTTGTCTATAAACCTTTGCTGCTATATAATG
GAGAGCTGACCTGCCAAACACAGAGTGGAAAAGTAAACAACATCTACCTTAGCACCCATGGCTTTCTCAGCAACT
TAAAGATACGGGGCCTGACGAACCTGAGACCAATGCTGGCACAGAAATTAATGCTAAAGAGGTTTTCTGATGCTT
GGGAAATGTGCAGGATTCTGAATGATGAGGCTGCCTGGAATGAGTTGGCCAGAGCTTGCTACATCACATGGAAG
TGGAGTTTGAATCCGTGTTTATCGGAGAATTGGAATGTTGGCATAGTGATGTCCTTGGAAACAAATAAAGGGAA
TAGAGGACTACAATCTTTTGGCAGGACACCTTGCCATGTTTACCACGATTATAACCTGGCTCAGGACTTGTAAC
TTGCATCCAGCTGTCTATTGCTGCCCTGGAGATGAGAAGGGATTACAGCATTGGGACAGTGCTCTACAACCTGG
CAAAGCATTGGCCCCAGACCAGATACCTTTTATATCAAAAGAATATGCTATTACAGCTTGAATTCGCGGGTGATT
ATGTAAATGCTTTGGCTCATTATGAGAAAGGAATAACAGGTGATAATAAGGAACATGATGAAGCTTGTCTGGCTG
GAGTGGCCCAGATGTCCATAAGAATGGGAGACATACGTCGAGGGGTTAACCAAGCCCTCAAGCATCCCAGCAGGG
GTCTCTACTACGATAAAGCAGCATCTGTTTACATCCGCTCTAAGAATTGGGCAAAAGTTGGTGATCTTCTGCCCC
ACGTTTCTTCTCCTAAGATCCATTTCAGTATGCCAAAGCCAAGGAAGCAGATGGAAGATACAAAGAAGCTGTG
TAGCTTATGAAAATGCAAAACAGTGGCAAAGTGTAATCCGCATCTATCTGGATCACCTCAATAATCCTGAAAAAG
CTGTCAATATTGTTAGAGAGACCCAGTCTCTGGATGGAGCCAAAATGGTAGCCAGGTTTTTTCTACAGCTTGGTG
ACTATGGGTCTGCCATCCAGTTTCTTGTCATGTCCAAATGCAACAATGAAGCTTTCACACTGGCTCAGCAACACA
ACAAAATGGAAATCTATGCAGATATTATTGGTTCTGAAGACACTACTAATGAAGACTATCAAAGCATTGCCCTAT
ACTTTGAAGGAGAAAAGAGATATCTTCAGGCTGGAAAATTCTTCTTGCTGTGTGGCCAATATTCACGAGCACTTA
AACACTTCTGAAATGCCCAAGCTCGGAAGATAATGTGGCAATAGAAATGGCAATTGAACTGTTGGTCAGGCCA
AAGATGAACCTGCTGACCAATCAGCTGATAGACCATCTCCTGGGGGAGAACGATGGCATGCCTAAGGATGCCAAGT
ACCTGTTCCGTTGTACATGGCTCTGAAGCAATACCGAGAAGCTGCCAGACTGCCATCATCATTGCCAGAGAAG
AGCAGTCTGCAGGCAACTACCGAATGCACACGATGTTCTCTTCACTATGTATGCAGAACTGAAATCCCAGAAGA
TCAAAATTCCCTCCGAGATGGCCACCAACCTCATGATTCTGCACAGCTATATACTAGTAAAGATTTCATGTTAAAA
ATGGAGATCACATGAAAGGGGCTCGCATGCTCATTGGGTGGCCAACAACATCAGCAAATTTCCATCACACATTG

1546/6881

FIGURE 1429B

TACCCATCCTGACGTCAACTGTGATTGAGTGTACAGGGCAGGCCTGAAGAACTCTGCTTTCAGCTTCGCAGCTA
TGTTGATGAGGCCTGAATACCGCAGCAAAATAGATGCCAAATACAAAAGAAGATCGAGGGAATGGTCAGGAGAC
CCGATATATCTGAGATAGAAGAGGCCACGACTCCATGTCCATTCTGCAAATTTCTTCTCCCAGAGTGTGAACGCC
TCTGTCCTGGATGTAAAAACAGTATCCCATATTGCATTGCAACAGGTCGACACATGTTGAAAGATGACTGGACGG
TGTGTCCACATTGTGACTTCCCTGCTCTATACTCAGAATTGAAGATCATGCTAAACACTGAAAGCACATGTCCTA
TGTGTTCCAGAAAGATTAAACGCTGCTCAGCTGAAAAAGATTTTCAGACTGTACCCAGTACCTGCGAACGGAGGAGG
AACTGTGATTGGCACGTGCAGATACAATGCTCCTGAGAAGACAGCATTTTCCACAGGAGGCTGTTTCTTCCCCTG
GTGGATTTAAGAGACGGTCCTTTCTGGATACAGAGAAATGAAACAACGGTGACCTCTCCAGGTCGGCACTTTCCA
CTTCTGTACGGTGGCAAAACGATGACATGTAACCTTGCTGTTTATTGTACTTTGTATATTATTTCTCTTCAAAG
TCTTTCTTACACACTCTATCCTCTGCACTGTTAATAGTAACCTATGACATAATTGTAAATATTCAGCTTTTGTCT
AACTTTTGTATTTTGAAAACTTTAAATAAAATTGTTGACTAG

1547/6881

FIGURE 1430

GGCACGAGGCCTGGGCGGCTCCGCTAGCTGTTTTTCGTCTTCCCTAGGCTATTTCTGCCGGGCGCTCCGCGAAGA
TGCAGCTCAAGCCGATGGAGATCAACCCGAGATGCTGAACAAAGTGCTGTCCCGGCTGGGGGTGCGCGGCCAGT
GGCGCTTCGTGGACGTGCTGGGGCTGGAAGAGGAGTCTCTGGGCTCGGTGCCAGCGCCTGCCTGCGCGCTGCTGC
TGCTGTTTTCCCTCACGGCCCAGCATGAGAACTTCAGGAAAAAGCAGATTGAAGAGCTGAAGGGACAAGAAGTTA
GTCCTAAAGTGTA^{CTT}CATGAAGCAGACCATTGGGAATTCCTGTGGCACAATCGGACTTATTCACGCAGTGGCCA
ATAATCAAGACAAACTGGGATTTGAGGATGGATCAGTTCTGAAACAGTTTCTTTCTGAAACAGAGAAAATGTCCC
CTGAAGACAGAGCAAAATGCTTTGAAAAGAATGAGGCCATACAGGCAGCCCATGATGCCGTGGCACAGGAAGGCC
AATGTCGGGTAGATGACAAGGTGAATTTCCATTTTATTCTGTTTAAACAACGTGGATGGCCACCTCTATGAACCTG
ATGGACGAATGCCTTTTCCGGTGAACCATGGCGCCAGTTCAGAGGACACCCTGCTGAAGGACGCTGCCAAGGTCT
GCAGAGAATTCACCGAGCGTGAGCAAGGAGAAGTCCGCTTCTCTGCCGTGGCTCTCTGCAAGGCAGCCTTAATGTCT
CTGTGGGAGGGACTTTGCTGATTTCCCTCTTCCCTTCAACATGAAAATATATACCCCCCATGCAGTCTAAAAAT
GCTTCAGTACTTGTGAAACACAGCTGTTCTTCTGTTCGAGACACGCCTTCCCTCAGCCACACCCAGGCACTT
AAGCACAAGCAGAGTGACAGCTGTCCACTGGGCCATTGTGGTGTGAGCTTCAGATGGTGAAGCATTTCTCCCCAG
TGTATGTCTTGTATCCGATATCTAACGCTTTAAATGGCTACTTTGGTTTCTGTCTGTAAGTTAAGACCTTGGATG
TGGTTTAATTGTTTGTCCTCAAAGGAATAAACTTTTCTGCTGATAAGATAAAAAAAAAAAAAAAAAAAAA

1548/6881
FIGURE 1431

MLKPMELNPEMLNKVLSRLGVAGQWRFVDVLGLEEESLGSPAPACALLLFPLTAQHENFRKKQIEELKGQEV
SPKVYFMKQTIGNSCGTIGLIHAVANNQDKLGFEDGSVLKQFLSETEKMSPEDRAKCFEKNEAIQAAHDAVAQEG
QCRVDDKVNHFHILFNNVDGHLIELDGRMPFPVNHGASSEDLLKDAAKVCREFTEREQGEVRFSAVALCKAA

1549/6881
FIGURE 1432

GCCAAACACCAGAGCACCCTAGAAGGTTTAACTAAAAGAATGCTCATGTTTGACCCAGTTCCTGTCAAGCAAGAG
GCCATGGACCCTGTCTCAGTGTACATACCCATCTAATTACATGGAATCCATGAAGCCTAACAAGTATGGGGTCATC
TACTCCACACCATTGCCTGAGAAGTTCTTTAGACCCCAAGAAGGTCTGTGCGACGGAATACAGATGGAGCCAGTG
GACCTCACGGTGAACAAGCGGAGTTACCCCCCTTCGGCTGGGAATTCGCCCTCCTCTCTGAAGTTCCCGTCCTCA
CACCGGAGAGCCTCGCCTGGGTGAGCATGCCTTCTTCCAGCCACCGATAAAAAAATACTACCCCCCTTCTCCA
GGCGTGCAGCCCTTCGGCGTGCCGCTGTCCATGCCACCAGTGATGGCAGCTGCCCTCTCGCGGCATGGAATACGG
AGCCCGGGGATCCTGCCCGTCATCCAGCCGGTGGTGGTGCAGCCCGTCCCCTTTATGTACACAAGTCACCTCCAG
CAGCCTCTCATGGTCTCCTTATCGGAGGAGATGAAAAATTCCAGTAGTAGCATGCAAGTACCTGTAATTGAATCA
TATGAGAAGCCTATATCACAGAAAAAATTAAATAGAACCTGGGATCGAACCACAGAGGACAGATTATTATCCT
GAAGAAATGTACCCCCCTTAATGAAGTCAAGTGTCCCCCGCAAGCATTGTTGCAAGAGAATCACCCCTTCGGTC
ATCGTGCAGCCTGGGAAGAGACCTTTACCTGTGGAATCCCGGATACTCAAAGGAAGCGGAGGATACACAGATGT
GATTATGATGGATGCAACAAAGTGACACTAAAAGCTCCCACTTGAAAGCACACAGAAGAACACACACAGGAGAA
AAACCCTACAAATGTACATGGGAAGGGTGACATGGAAGTTTGCTCGGTCTGATGAACTAACAAGACATTTCCGA
AAACATACTGGAATCAAACCTTTCCAGTGCCCGGACTGTGACCGCAGCTTCTCCCGTTCTGACCATCTTGCCCTC
CATAGGAAACGCCACATGCTAGTCTGATTGCCTCTGTGTCTGCTCAGCGTGACTCCCCACTCACCTGGCTCTC
TCTCTGTCTGCTGCCCTCCCATTTATCTAACACATTTTTTACATGTACATTTAATTTGATTTCAGCTGGTCTGAATCTC
TGAATTTATATCATCCAAAACCTCCATATGGTCAGTAGTAGATGTTCTCTAATCCTCCCTCTCCTTACCACGGGT
CAGACCTAAAGAAATGTGAACACTTTTTT

1550/6881
FIGURE 1433

CCTTTCCGCTCTGGCGGCAGCCATCAGGTAAGCCAAGATGGGTGCATACAAGTATATCCAGGAGCTATGGAGAAAG
AAGCAGTCTGATGTACGCGCTTTCTTCTGAGGGTCCGCTGCTGGCAGTACCGCCAGCTCTCTGCTCTTCACAGG
GCTCCCCGCCCCACCCGGCCTGATAAAGCGCGCCAACCTGGGCTACAAGGCCAAGCAAGGTTACGTTATACATAGG
ATTTGIGTTAGCCGTGGTGGCCGAAAACGCCCAGTTCCTAAGGGTGCAACTTACGGCAAGCCTGTCCATCATGGT
GTAAACCAGCTAAAATTTTGCTCGAAGCCTTCAGTCCGTTGCGGAGGAGCGAGCTGGACGCCACTGTGGGGCTCT
GGGAGTCCGTAATTCTTACTGGGTGGTGAAGATTCCACATACAAATTTTTTGAGGTATCCTCATTGATCCATT
CCATAAAGCTATCAGAAGAAATCCTGACACCCCATGGATCACCAAACCAGTCCACAAGCACAGGGAGATGCGTGG
GCTGACATCTGCAGGCCGAAAGAGCCGTGGCCTTGGAAGGGCCATAAGTTCACCACACTATTTGTGGTTCTCG
CCGGGCAGCTTGGAGAAGGCGCAATACTCTCCAGCTCCACCGTTACCGCTAATACAAGTAAAGTTTGTAAAATTC
ATACCTAATAAGTCTGCAGATGTTTCTTGAATGC

1551/6881
FIGURE 1434

CAGCCATCAGGTAAGCCAAGATGGGTGCATACAAGTATATCCAGGAGCTATGGAGAAAGAAGCAGTCTGATGTCA
CGCGCTTTCTTCTGAGGGTCCGCTGCTGGCAGTACCGCCAGCTCTCTGCTCTTCACAGGGCTCCCCGCCCCACCC
GGCCTGATAAAGCGCGCCAAC TGGGCTACAAGGCCAAGCAAGGTTACGTTATACATAGGATTTGTGTTAGCCGTG
GTGGCCGTAACCAGCTAAAATTTGCTCGAAGCCTTCAGTCCGTTGCGGAGGAGCGAGCTGGACGCCACTGTGGG
GCTCTGGGAGTCCTGAATTCTTACTGGGTTGGTGAAGATTCCACATACAAATTTTTTGAGGTTATCCTCATTGAT
CCATTCCATAAAGCTATCAGAAGAAATCCTGACACCCCATGGATCACCAAACCAGTCCACAAGCACAGGG

1552/6881
FIGURE 1435

GCCGCTGCCACCGCACCCGCCATGGAGCGGCCGTCGCTGCGGCCCTGCTCCTCGGCGCCGCTGGGCTGCTGCT
CCTGCTCCTGCCCCCTCTCCTCTTCTCCTCTTTCGGACACCTGCGGCCCTGCGAGCCGGCCTCCTGCCCCCCCCT
GCCCCCGCTGGGCTGCCTGCTGGGCGAGACCCGCGACGCGTGCGGCTGCTGCCCTATGTGCGCCCGCGGCGAGGG
CGAGCCGTGCGGGGGTGCGCGCGCCGGCAGGGGGTACTGCGCGCCGGGCATGGAGTGCGTGAAGAGCCGCAAGAG
GCGGAAGGGTAAAGCCGGGGCAGCAGCCGGCGGTCCGGGTGTAAGCGGCGTGTCGTGTGCAAGAGCCGCTACCC
GGTGTGCGGCAGCGACGGCACCACTACCCGAGCGGTGCCAGCTGCGCGCCGCCAGCCAGAGGGCCGAGAGCCG
CGGGGAGAAGGCCATCACCCAGGTCAGCAAGGGCACCTGCGAGCAAGGTCCTTCCATAGTGACGCCCCCAAGGA
CATCTGGAATGTCACTGGTGCCAGGTGTACTTGAGCTGTGAGGTCATCGGAATCCCGACACCTGTCCTCATCTG
GAACAAGGTAAAAAGGGGTCACTATGGAGTTCAAAGGACAGAACTCCTGCCTGGTGACCGGGACAACCTGGCCAT
TCAGACCCGGGGTGGCCAGAAAAGCATGAAGTAACTGGCTGGGTGCTGGTATCTCCTCTAAGTAAGGAAGATGC
TGGAGAATATGAGTGCCATGCATCCAATTCCTAAGGACAGGCTTCAGCATCAGCAAAAATTACAGTGGTTGATGC
CTTACATGAAATACCAAGTAAAAAAGGTGAAGGTGCCGAGCTATAAACCTCCAGAATATTATTAGTCTGCATGGT
TAAAAGTAGTCATGGATAACTACATTACCTGTTCTTGCTAATAAGTTTCTTTTAATCCAATCCACTAACACTTT
AGTTATATTCACTGGTTTTACACAGAGAAATACAAAATAAAGATCACACATCAAGACTATCTACAAAAATTTATT
ATATATTTACAGAAGAAAAGCATGCATATCATTAAACAAATAAAATACTTTTTATCACAAAAA

1553/6881
FIGURE 1436

MERPSLRALLLGAAGLLLLLLPLSSSSSSDTCGPCEPASCPLPPLGCLLGETRDACGCCPMCARGEPEPCGGGG
AGRGYCAPGMECVKSRKRRKGKAGAAAGGPGVSGVCVCKSRYPVCGSDGTTYPSCQLRAASQRAESRGEKAITQ
VSKGTCEQGPSIVTPPKDIWNVTGAQVYLSCEVIGIPTVLIWNKVKRGHYGVQRTTELLPGDRDNLAIQTRGGPE
KHEVTGWVLVSPLSKEDAGEYECHASNSQQAASAKITVVDALHEIPVKKGEGAEI

1554/6881
FIGURE 1437

GGCACGAGGCTCGGGTCAAATGCGCGCCTCGGACCCTAGTGCGCGTGCGCGCTGGTGGCTCCGCCCTTTGGAGC
TACTTCCTCATGCTGCCCCGCTCGCCTACCGTTCAGGCTGCTGAGCCTTTTCCTTCGTGGATCCGCTCCACGGCA
GCGGCGCATGGCCTCCGGGAGCCGCTCCTGGAGAGGAGGTGCGCTGCCGCTCCTCCTTCCAGCACTCATCGAGT
CTGGGACGCGAGCTTCCTTATGACCCCGTGGACACGGAGGGCTTTGGAGAAGGTGGTGACATGCAGGAGCGTTTT
CTGTTCCCGGAGTACATCCTGGATCCGGAGCCGCAACCCACCCGCGAAAAGCAGCTGCAGGAGCTCCAGCAACAG
CAGGAGGAGGAGGAGCGACAGAGGCAGCAGCGGCGGGAGGAGCGGCGACAGCAAAACCTACGGGCCAGGTCCCGG
GAGCACCCGGTCGTGGGGCACCCGGACCCGGCATTGCCGCCAGCGCGTGAAGTCTCGGGCTGCCGGGCAGAG
CTGCACTGCCAGGACGCCGGAGTGCCCGGCTACCTGCCCGAGAGAAGTTCCTCCGCACGGCGGAGGCAGACGGC
GGGCTGGCACGGACCGTGTGCCAGCGCTGCTGGTCTGCTGCGACACCGGCGCGCTCTACGCCTGCAGGTGAGC
CGCGAGCAGTACCTGGAGCTGGTGAGCGCCGCGTTGCCGGCGGCCCGGCCCTCCCTGGTGCTCTACATGGTGAGC
CTGCTGGACCTGCCCGACGCCCTGCTGCCCGACTTGCCCGCGCTGGTGGGCCCCAAGCAGCTGATCGTGCTGGGA
AACAAAGTGGACCTCCTGCCCGAGGATGCTCCTGGCTACCGGCAGAGGCTGCGGGAGCGACTGTGGGAGGACTGT
GCCCCGCGCGGGCTCCTGCTGGCCCCTGCCACCAAGGGCCACAGCGCCCCGTCAAGGACGAGCCACAGGACGGG
GAGAATCCGAATCCGCCGAAGTGGTCCCGCACAGTGGTCAGGGACGTGCGGCTGATCAGCGCCAAGACCGGCTAT
GGAGTGGAAGAGTTGATCTCTGCCCTTCAGCGCTCCTGGCGCTACCGTGGGGACGTCTACTTAGTGGGCGCCACC
AACGCCGGCAAATCCACTCTCTTTAACACGCTCCTGGAGTCCGATTACTGCACTGCCAAGGGCTCCGAGGCCATC
GACAGAGCCACCATCTCCCCTTGCCAGGTACTACATTAAACCTTCTGAAGTTTCTATTGCAACCCAACTCCT
TACAGAATGTTTTAAAGGCATCAAAGACTTAAAAAGATTCAACTCAAGCTGAAGAAGATCTTAGTGAGCAAGAA
CAAAATCAGCTTAATGTCTCAAAAAGCATGGTTATGTGCTAGGAAGAGTTGGAAGGACATCTTGTATTGAGAA
GAACAGAAGGATAACATTCCCTTTGAGTTTGATGCTGATTCACTTGCCCTTGACATGGAAAATGACCTGTTATG
GGTACACACAAATCCACCAACAAGTAGAATTGACTGCACAAGATGTGAAAGATGCCCACTGGTTTTATGACACC
CCTGGAATTACAAAAGAAAATTGTATTTAAATCTTCTAACAGAAAAAGAGTAAATATTGTTTTGCCAACACAG
TCCATTGTTCCAAGAACTTTTTGTGCTTAAACCAGGAATGGTTCTGTTTTTGGGTGCTATAGGCCGCATAGATTC
CTGCAGGGAAATCAGTCAGCTTGGTTTACAGTCGTGGCTTCCAACATCCTCCCTGTGCATATCACCTCCTTGGAC
AGGGCAGACGCTCTGTATCAGAAGCATGCAGGTACATCGTTACTCCAGATTCCAATGGGTGGAAAAGAACGAATG
GCAGGATTTCTCCTCTTGTGCTGAAGACATTATGTTAAAGAAGGACTGGGGGCATCTGAAGCAGTGGCCGAC
ATCAAGTTTTCTCTGCAGGTTGGGTTTCAGTAACACCTAATTTTAAGGACAGACTGCATCTCCGAGGCTATACA
CCTGAAGGAACAGTTTTGACCGTCCGGCCCCCTCTCTTGCCATATATTGTTAACATCAAAGGACAGCGCATCAAG
AAAAGTGTGGCCTATAAAACCAAGAAGCCTCCTTCCCTTATGTACAACGTGAGGAAGAAGAAAGGAAAGATAAAT
GTATGAGACCGACCTTGTTCACTCCAGATATTAAGTGTATTGAACACAACAAAATACATTGAATTTGTATTAAAC
ATATAACGCATAAATAAAGCTCCCATCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

1555/6881
FIGURE 1438

MLPARLPFRLLSLFLRGSAPTAARHGLREPLLERCAAASSFQHSSSLGRELPYDPVDTEGFGE GDMQERFLFP
EYILDPEPQPTREKQLQELQQQEEEEERQQRQRRERRQONLRARSREHPVVGHPDPALPPSGVNCSGCGAELHC
QDAGVPGYLPREKFLRTAEGGLARTVCQRCWLLSHHRRALRLQVSREQYLELVSAALRRPGPSLVLYMVDLLD
LPDALLPDLPALVGPQLIVLGNKVDLLPQDAPGYRQRLRERLWEDCARAGLLLAPGHQGPQRPVKDEPQDGENP
NPPNWSRTVVRDVRLISAKTGYGVEELISALQRSWRYRGDVYLVGATNAGKSTLFNTLLES DYCTAGSE AIDRA
TISPWPGTTLNLLKFPICNPTPYRMFKRHQRLKKDSTQAEEDLSEQEQNLNVLKKHGYVVG RVGRTFLYSEEQK
DNIPFEFDADSLAFDMENDPVMGTHKSTKQVELTAQDVKDAHWFYDTPGITKENCILNLLTEKEVNIVLPTQSIV
PRTFVLKPGMVLFIGAIGRIDFLQGNQSAWFTVVASNILPVHITS LDRADALYQKHAGHTLLQIPMGGKERMAGF
PPLVAEDIMLKEGLGASEAVADIKFSSAGWVS VTPNFKDRLHLRGYTPEGTVLTVRPPLPYIVNIKGQRIKKS V
AYKTKKPPSLMYNVRKKKGKINV

FIGURE 1439

GAAAGCTGTATTTGCTGCACGTGGAAATCTCCGTTATTTTCCAGCACCCACAGTAGCGTAATGGGAGTAAACGGA
CTTAACCTCATTTCTCTTTAGAGCATTTAGCCTTCATATGCCCTTCCTTGCATGCTTCCCCAGGCCGTCAGA
CTTGAGTTCGCTCGCTTCCCGCGCGGTGCGAGCCCTCAGCCCACTTAGGATAATGGCGACAGCTGAGGTACT
GAACATTGGTAAAAAATTATATGAGGGTAAAAACAAAAGAAGTCTACGAATTGTTAGACAGTCCAGGAAAAGTCTCT
CCTGCAGTCCAAGGACCAGATTACAGCAGGAAATGCAGCTAGAAAAACCACCTGGAAGGAAAAGCTGCAATCTC
AAATAAAATCACCAGTTGTATTTTTCAGTTATTACAGGAAGCAGGTATTAACACTGCCTTCACCAGAAAATGTGG
GGAGACAGCTTTTCATTGCACCGCAGTGTGAAATGATTCCAATTGAATGGGTTTGAGAAGAATAGCAACTGGTTC
TTTTCTCAAAGAAATCCTGGTGTCAAGGAAGGATATAAGTTTTACCACCTAAAGTGGAGTTGTTTTTCAAGGA
TGATGCCAATAATGACCCACAGTGGTCTGAGGAACAGCTGATTGCTGCAAAAATTTTGCTTTGCTGGACTTCTTAT
AGGCCAGACTGAAGTGGATATCATGAGTCATGCTACACAGGCTATATTGAAATACTGGAGAAATCCTGGTTGCC
CCAGAATTGTACACTGGTTGATATGAAGATTGAATTTGGTGTGATGTAACCACCAAAGAAATTGTTCTTGCTGA
TGTATTGACAATGATTCTCGGAGACTCTGGCCATCAGGAGATCGAAGCCAACAGAAAGACAAACAGTCTTATCG
GGACCTCAAAGAAGTAACTCCTGAAGGGCTCCAAATGGTAAAGAAAACTTTGAGTGGGTTGCAGAGAGAGTAGA
GTTGCTTTTGAATCAGAAAGTCAGTGCAGGGTTGTAGTGTGATGGGCTCTACTTCTGATCTTGCTCACTGTGA
AAAAATCAAGAAGGCCTGTGGAATTTTGGCATTTCATGTGAACTTCGAGTAACATCTGCGCATAAAGGACCAGA
TGAAACTCTGAGGATTAAAGCTGAGTATGAAGGGGATGGCATTCTACTGTATTTGTGGCAGTGGCAGGCAGAAG
TAATGGTTTGGGACCAGTGATGTCTGGGAACACTGCATATCCAGTTATCAGCTGTCTCTCCCTCACACCAGACTG
GGGAGTTCAGGATGTGTGGTCTTCTCTTCGACTACCCAGTGGTCTTGGCTGTTCAACCGTACTTTCTCCAGAAGG
ATCAGCTCAATTTGCTGCTCAGATATTTGGGTTAAGCAACCAATTTGGTATGGAGCAAACCTGCGAGCAAGCATTTT
GAACACATGGATTTCTTGAAGCAGGCTGACAAGAAAATCAGAGAATGTAATTTATAAGAAAGAAATGCCATTGAA
TTTTTTAGGGGAAAAACTACAAATTTCTAATTTAGCTGAAGGAAAATCAAGCAAGATGAAAAGGTAATTTTAAAT
TAGAGAACACAAATAAAATGTATTAGTGAATAAATGCTTCTCTAGATCCATATTAATAAACATGAGCATCTAAC
CCTCCTTTCTTAGGCTAGACACCAAGATATTTAGCCAGCCTTTATCATTCTCTTACTTTTATCCTTTTTCTCTTA
AGTATTGGTGGTCACTACTATTGAGTTTTCTTCCTTAACACTGATTAAATGATCTTAACTCCCTCAGCTAAAACCTG
GCATTACTGACTCCCAGCTATATTTCTCCAGACTTGCAATTTTTTTTTTTTTTTTGGAGACAGGGTCTCACTGTCTG
CCCAGGCTGGAGTGCAGTGGCGTGATCTCAGTTCACTGCTGCTTTCCCTCCTGGGCTCAAGCAGTCTCTCCACCT
CAGCCTCTCGACTAACAGGGACTATAATCTTGCAAGCACCATGCCGAGCTAATTTTATTTTTTTGTAGAGATGAGCT
CTCACTATGTCAACCCAGGTTCTGCTCAAACCTCTGAACCTAGTAATTTCTCTATCTCAGCCTCCCAAAGTGCTA
GGGTTACAGACATGAGCCACTGTGCCTGTCTAGACTTGTACTTTCAACTGTCCATTTCTCCCTGTCTGTCCCAGT
GGCACTCATGAAAAAACAGAAATGCTCCCAACTTTATTATCTTCCAAGCCTGTAGCTCTTGGTATACTCACTGTT
GCAAGTCAGAAGCTTGATTTCATCATTGATGTTTTTCTCACGTTTCACATCTCACTCATACCAAGTCATGTTGG
TGTTAATTTCTGATTAAACCTTGAATTTACCGTCTTCTCATCTCTGTACAAAAGCCTCAAGTGAGGGTCAAAT
CAACATTATCCTGATCTAGACAGCCCCATTCTCAATCCACCTTTTCCAAGTTGATTGCCCAAGGACTTCTAAC
AATAAACTCTCTTTTGACCACAGACTTCTTTGAAAATATACATGCTGTTGACCTCTCTGTAGAAAACCGCACA
CATAAACTTACCAACAGATTTTCATTGGTCTTGGGTTCTCCCGAAGCCTATCCATGGTTTATAGATTAAAGAAT
GATGAGGTAGCTGGGCACAGTGGCTCACACCTACGATCACAGCACTTCGGGAGGCTGAAGCAAGCAGATCACTTG
AGGTCAAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAAACCTGTCTCTACTAAAAATACAAAAAGTAGCCAGC
CGTGATGACAGGCACCTGTAATCCCAGCTACTCGGGAGGCTGAGGCATGAGAATTGCTTGAACCCGGGAGGCGGA
GGTTGCAGTGAGCCTAGATCATGCCACTGCACTCCAACCTGGGCAGCAGAGCAAGACTCTGTCTCAAAGGGGAA
AAAAAAAATTGCTGATGTGACCCATGAAGGGAACCTATTTTCTCGTAATTTTGACTGCCACACATTGGTACCT
TTAGTTCTCTGAAGGCCACGTTTTTATCATTAAAGACCTATTTGTAGCTAGTAGAGCTTTATGTTGCTGTCCA
TGAAACCTTCTGTAACCACAGTGACTACAAGTAGTCTTTCTCTATTGAATTATTAGGTCCAGAATAGAAGATGT
CATTTGTACACTTTATTTCCCTCACACTGTGTTATGCTCTGATGTGCTATGCTTAGCTATCTGTGAGAGATTAGTA
AATTATAAACTCATGTGTACTACTTAAGTTTATATCTTATGCTAGTTTATAAGAACAATTAAGGACTTAGAA
GATTAA

1557/6881

FIGURE 1440A

TCGGGAAGGAAGAGCCTGTGCGGAGCGCGAGCTTCTGAGCTCGACGGGCGGAGCTGGCAGCTGGTTGGTGCTTAC
ACCTTGGCCGCGAGCGGCAGGTCCCTCCACGTGCTTTCGGCGGCGACATGGAGCTGGAGGAGTTGGGGATCCGAGA
GGAATGTGGCGTGTTCCGGTGATCGCCTCAGGAGAGTGGCCACGCAGCTGGATGTACCGCATGTGATCACTCT
GGGACTCGTGGGGCTGCAGCACCGGGGTGAGGAGAGTGTGGTATTGTGACTAGTGTGGGAGTTCGGTGCCAAC
ATTCAAATCACACAAGGGAATGGGTCTTGTAAATCACGTCTTTACTGAAGACAATTGAAAAAATTATATGTTTC
AAATCTTGGAATTGGACACACCAGGTATGCCACCACAGGAAAATGTGAAGTAGAAAATTGTCAGCCCTTCGTGT
TGAAACACTTCATGGGAAGATAGCTGTGGCACATAATGGCGAATTGGTAAATGCTGCTCGATTAAAGGAAAAAGCT
TCTGCGTCATGGTATTGGTCTGTCTACAAGTTCGATAGTGAATGATTACCCAGTTACTGGCGTATACCCCTCC
TCAGGAACAAGATGACACCCCGAGCTGGGTAGCCAGGATTAAAACTTGATGAAGGAAGCACCCACAGCACTACTC
CCTGCTTATAATGCACAGAGATGTTATTTATGCAGTACGAGATCCTTATGGAAATCGTCCCTTATGCATTGGTGCG
TCTTATTCCAGTGTCTGATATAAATGACAAAGAGAAAAAACATCAGAAACAGAAGGATGGGTGGTGTCTTCAGA
ATCTTGTAGCTTCTTATCTATTGGTGCAAGATATTACCGTGAAGTCTTGCTGGAGAAAATTGTGGAATATCCAG
ACACAATGTCCAACTCTTGATATTATATCAAGGTCTGAAGGAAACCCAGTGGCTTTTGTATCTTTGAATATGT
TTATTTTGCAAGACCAGACAGTATGTTTGAAGACCAAATGGTTTATACAGTAAGATACCGTTGTGGCCAGCAGCT
AGCGATTGAAGACCTGTGGATGCAGATTTGGTTAGCACTGTTCCAGAATCTGCTACGCCTGCTGCTCTTGCTTA
CGCAGGAAAGTGTGGACTTCCATATGTGGAGGTGCTGTGTA AAAACCGGTATGTAGGGAGAACCTTCATTACGCC
AAACATGAGGTTAAGACAACCTTGGTGTGCAAAAAAATTTGGAGTATTGTCAGACAACCTTTAAAGGCAAAAGAAT
TGTTCTTGTAGATGATTCAATTGTGAGAGCAATACCATCTCACCTATAATAAACTGCTCAAAGAATCTGGTGC
AAAAGAGGTACACATTGAGTAGCTTACCACCAATTAAATATCCATGCTTCATGGGAATAAACATCTCTACAAA
AGAAGAGCTCATTGCCAATAAACAGAAATTTGATCACCTTGCAAGATATCTAGGAGCAACAGTGTGTGTATCT
GTCAGTAGAAGGACTGGTTTCATCTGTACAAGAAGGGATAAAGTTTAAAAACAGAAAGAGAAAAAGCAGATAT
TATGATCCAAGAAAATGGAATGGTCTGGAATGTTTTGAAAAGAGTGGTCAATTGTACAGCTTGTCTACTGGAAA
ATATCCTGTAGAATTAGAATGGTAGCTGGTAGGGTTGGATGTGTGTAGTTTCAAGATAGAAAAGTTGGTCAAGAAG
TTATAGTGGTCACACCTCATCTATTTACTGTTACTCAGTTGGTACAATGTAAAATGCCATGCTTATGTTTATAAG
TTTTGAGATTTTTTTTTTTTCTGAAAAGGATACCAAAGTGCAGTAACCTGAACATTTCCAATTGCATATAATACAA
CAATATGTGGTGTCTTTTTTTTACACAAGCATTGGCTAGCCTTTTTAACCTGGTCAGAGAAGGCAGGTGGTCAC
TGACATTTCCCAAGTCCATGCTTTAAAGGGTTTGCAAGAAGTTAGGGTTAAGGAGAGGTGATGCCAACAGACAG
GTGAGTTAAATATACCATTTACACAAAGTTTGAATAGAATACATTATACCTCATAGGTGTCTAGCCTCTACAGT
TCTGGCTGTAGTTATGACCTTGGCTTCCCTGTCTAACTGTAGACAAATCTTTAAAAAATAATAATAATCTGG
TGCCCTCAGTTTCCCCACATGTGCAATGGGATACCTTATTAATAATTAAATAAGAATGTGAATAAGTGTCTACTTT
TGTGATTTGAGCCATCATTTCACTTCTGATTTTAAAGACAACCTCATGATTGTTAGCTTTTCAGAAAGCTAATGATTG
TTAACTTTTTGAAATTAGTTTACAATTAATTAAGATTTCAATTATGATGGAAGGAGACATAATTGGCAGATCTTTG
CCATCTCTCTTTGAGATGTCCTAAAAAGGGTTGTAAAAATCTGTGAAAAAGTTTTTCTACATTTGACTAGAAAA
TGTGATCCATAGTATTTAGTGGCCTGATACTATAAGCTCAGCAAGTAACCTGGTACATTTGAAATAAAAAACCAA
TTTTTAGATTCAAACAATCCCTTTATCCTTAATTTAATTAATTAATCATATGCTTTTTTAAATGAAGTGCTTGATC
ACTTGCAAACATATATACATGTAGATGTACATATACATGTACACATACATAAAATATTATTGCAATTAAGTGAT
CAAGTACAGACACAATAGGGGCCAGTTTTGTTAAGGATCAAAGAGACAACCACTTTGGGGAATTAGTATCAACT
TACAATCCAAGTCCAAGTATCATCTTATAATCACTTTTTTCTACTATATTAAGATCTAATGAATTTGATTTCTTT
TTTGAAGTTTTTTCTTGAACATCTGAGATTAGAAGTTTAAAGTACTTGACCCCAAACCTTTGTTTATGTAAGA
ATTTTTAAACATAAAAGTGTGTTGTTCTGTTATGTTTACCATAAATTTGATGTATATAGTGTCCAGATCCATTTAGA
AATTTAATATTTATTAATAACTGAACTGTTTGTCTTCCCTTGGTATATAGTCTCGCATATTATATTATAGCAGG
CCAAGATAAAATTTGACAGCTCTTTAAGCCACATGCAGCAGTGGGTGAGATAACCCGTGGCAGTGACACGGG
CAAATTGGCATTGGAATAAAGCCCTGGGACCACCTCAACATGCGTAGCCTCTTGTCTTAAATGTACTCCCATGG
CAGCATGGAGGAGGCAAGACCTGTGGGTCAATTTGAACTGGCCTTACTTTGATTTTTAAACAAGAGACTCAGG
GAAAGTACTAAACAAAATCTCTGATTTTACTTTTGGTTTTCTGTAGTTTTTGTGTTTACTGAGATGCTTTTGTA
AGGAAAATAATACTGTGACAGTTTAGTAATCTACAGATCTTAATATTTCTCCATCATGGCCTTTTACTTCACA
ATTTTCTGAAGTCTGAATTAATTACAATTTTTTTTACCAATTTAATCTCAAATGTTGTTTAACTGCTTTAAAT
TCATATACGTAGAGTATTATAAACTGCAGAGATGAAAAATGTGTTTTACGGGATTATATTGTGAAGTAACTA

1558/6881

FIGURE 1440B

AGCCTACTTTTTGTGACTTATTTGTGATGCCTTGTTGATAAATATGTGTAATAAGTATGTTT

1559/6881
FIGURE 1441

CTCTTTCCCATCTTGCAAGATGGCGGGTGAAAAAGTTTAGAAGCCAGATACTAAAGAGAAGAAACCCGAAGCCAA
GAAGACTGATGCTGGTGGCAAGGTGAAAAAGGGTAACCTCAAAGCTAAAAAGCCCAAGAAGGGGAAGCCCCGTTG
CAGCCGCAACCCTGTCCITGTCAGAGGAATTGGCAGGTATTCCCGATCTGCCATGTATTCCAGAAAGGCCATGTA
CAAGAGGAAGTACTCAGCCGCTAAATCCAAGGTTGAAAAGAAAAAGAAGGAGAAGGTTCTTGCAACTGTTACAAA
ACCAAGTTGGTGGTGACAAGAACGGCGGTACCCGGGTGGTTAAACTTCGCAAAATGCCTAGATATTATCCTACTGA
AGATGTGCCCTCGAAAGCTGTTGAGCCACGGCAAAAAAAACCCTTCAGTCAGCACGTGAGAAAACCTGCGAGCCAG
CATTACCCCCGGGACCATTCTGATCATCCTCACTGGACGCCACAGGGGCAAGAGGGTGGTTTTCTGAAGCAGCT
GGCTAGTGGCTTATTACTTGTGACTGGACCTCTGGTCCTCAATCGAGTTCCTCTATGAAGAACACACCAGAAATT
TGTCATTGCCACCTCAACCAAAATCGATATCAGCAATGTAAAAATCCCAAAACATCTTACTGATGCTTACTTCAA
GAAGAAGCAGCTGCGGAAGCCCAGACACCAGGAAGGTGAGATCTTCGACACAGAAAAAGGGAATATGAGATTAC
GGAGCAGCGCAAGATTGATCAGAAAGCTGTGGACTCACAAATTTATCAAAAATCAAAGCTATTCTCAGCTCCA
GGGCTAGTTGCGATCTGTGTTTGCCCTGACGAATGGAATTTATCCTCACAAATTGGTGTTCTAAATGTCTTAAGA
ACCTAATTAAATAGCTGACTAC

1560/6881
FIGURE 1442

GTTTTAGTTTGTAGCTGCCTGGAGTGTTATTTAAGAAAGCAGAAGCACCATCATTGACACTCCTTATAGA
TCACACACCTTAACCTGACTTTTTTGGCTCCAGTTTTTCAGAAGAAGTGAAGTCAAGATGAAGAACCATTGCT
TTTCTGGGGAGTCTGGCGGTTTTTATTAAGGCTGTTTCATGTGAAAGCCCAAGAAGATGAAAGGATTGTTCTTGT
TGACAACAAATGTAAGTGTGCGCGGATTACTTCCAGGATCATCCGTTCTTCCGAAGATCCTAATGAGGACATTGT
GGAGAGAAACATCCGAATTATTGTTCTCTGAACAACAGGGAGAATATCTCTGATCCCACCTCACCATTGAGAAC
CAGATTTGTGTACCATTGTCTGACCTCTGTAAAAAATGTGATCCTACAGAAGTGGAGCTGGATAATCAGATAGT
TACTGCTACCCAGAGCAATATCTGTGATGAAGACAGTGCTACAGAGACCTGCTACACTTATGACAGAAACAAGTG
CTACACAGCTGTGGTCCCACTCGTATATGGTGGTGAGACCAAAATGGTGGAAACAGCCTTAACCCAGATGCCTG
CTATCCTGACTAATTTAAGTCATTGCTGACTGCATAGCTCTTTTTCTTGAGAGGCTCTCCATTTTGATTGAGAAA
GTTAGCATATTTATTACCAATGAATTTGAAACCAGGGCTTTTTTTTTTTTTTGGGTGATGTAAAACCAACTCCCT
GCCACCAAAATAATTAAATAGTCACATTGTTATCTTTATTAGGTAATCACTTCTTAATTATATGTTCACTCT
AAGTATCAAAATCTTCCAATTATCATGCTCACCTGAAAGAGGTATGCTCTCTTAGGAATACAGTTTCTAGCATT
AACAAATAAACAGGGGAGAAAATAAACTCAAGGACTGAAAATCAGGAGGTGTAATAAAATGTTCTCGCATT
CCCCCGCTTTTTTTTTTTTTTTGACTTTGCCTTGGAGAGCCAGAGCTTCCGATTTTCTTTACTATTCTTTTT
AAAAAAGTTTCACTGTGTAGAGAACATATATGCATAAACATAGGTCAATTATATGTCTCCATTAGAAAAATAAT
AATTGGAAAACATGTTCTAGAACTAGTTACAAAAATAATTTAAGGTGAAATCTCTAATATTTATAAAAGTAGCAA
AATAAATGCATAATTAAATATATTTGGACATAACAGACTTGAAGCAGATGATACAGACTTCTTTTTTTCATAA
TCAGGTTAGTGTAAGAAATTGCCATTTGAAACAATCCATTTGTAAGTGAACCTTATGAAATATATGTATTTTAT
GGTACGTATTCTCTAGCACAGTCTGAGCAATTAAATAGATTCATAAGCATA

1561/6881
FIGURE 1443

GGTGCTGCAAGACTCTCTGGTAGAAAAATGAAGAGGGTCCTGGTACTACTGCTTGCTGTGGCATTGACATGCT
TTAGAGAGAGGCCGGGATTATGAAAAGAATAAAGTCTGCAAGGAATTCTCCCATCTGGGAAAGGAGGACTTCACA
TCTCTGTCACTAGTCTGTACAGTAGAAAATTTCCAGTGGCACGTTTGAACAGGTGAGCCAACTTGTGAAGGAA
GTTGTCTCCTTGACCGAAGCCTGCTGTGCGGAAGGGGCTGACCTGACTGCTATGACACCAGGACCTCAGCACTG
TCTGCCAAGTCTGTGAAAGTAATTCTCCATTCCCCGTTACCCAGGCACTGCTGAGTGTCTGCACCAAAGAGGGC
CTGGAACGAAAGCTCTGCATGGCTGCTCTGAAACACCAGCCACAGGAATTCCCTACCTACGTGGAACCCACAAAT
GATGAAATCTGTGAGGCGTTGAGGAAAGATCCAAAGGAATATGCTAATCAATTTATGTGGGAATATTCCACTAAT
TACGGACAAGCTCCTCTGTCACTTTTAGTCAGTTACACCAAGAGTTATCTTTCTATGGTAGGGTCCTGCTGTACC
TCTGCAAGCCCAACTGTATGCTTTTTGAAAGAGAGACTCCAGCTTAAACATTTATCACTTCTCACCACCTCTGTCA
AATAGAGTCTGCTCACAATATGCTGCTTATGGGGAGAAGAAATCAAGGCTCAGCAATCTCATAAAGTTAGCCCCAA
AAAGTGCCTACTGCTGATCTGGAGGATGTTTTGCCACTAGCTGAAGATATTACTAACATCCTCTCCAAATGCTGT
GAGTCTGCCCTCTGAAGATTGCATGGCCAAAGAGCTGCCTGAACACACAGTAAAACCTCTGTGACAATTTATCCACA
AAGAATTCTAAGTTTGAAGACTGTTGTCAAGAAAAAACAGCCATGGACGTTTTTGTGTGCACTTACTTCATGCCA
GCTGCCCAACTCCCCGAGCTTCCAGATGTAGAGTTGCCCAACAAACAAAGATGTGTGTGATCCAGGAAACACCAAA
GTCATGGATAAGTATACATTTGAACTAAGCAGAAGGACTCATCTTCCGGAAGTATTCCTCAGTAAGGTACTTGAG
CCAACCCTAAAAAGCCTTGGTGAATGCTGTGATGTTGAAGACTCAACTACCTGTTTTAATGCTAAGGGCCCTCTA
CTAAGAAGGAACTATCTTCTTTTCATTGACAAGGGACAAGAACTATGTGCAGATTATTCAGAAAATACATTTACT
GAGTACAAGAAAAAACTGGCAGAGCGACTAAAAGCAAAATTGCCTGATGCCACACCCACGGAACCTGGCAAAGCTG
GTTAACAAGCACTCAGACTTTGCCTCCAACCTGCTGTTCCATAAACTCACCTCCTCTTTACTGTGATTCAGAGATT
GATGCTGAATTGAAGAATATCCTGTAGTCCTGAAGCATGTTTATTAACCTTTGACCAGAGTTGGAGCCACCCAGGG
GAATGATCTCTGATGACCTAACCTAAGCAAAACCACTGAGCTTCTGGGAAGACAACCTAGGATACTTTCTACTTTT
TCTAGCTACAATATCTTCATACAATGACAAGTATGATGATTGCTATCAAAATAAATTGAAATATAATGCAAAAC
AT

1562/6881
FIGURE 1444

MKRVLVLLLLAVAFGHALERGRDYEKNKVCKEFSHLGKEDFTSLSLVLYSRKFPSGTFEQVSQLVKEVVSLEACC
AEGADPDCYDTRTSALSAKSCESNSPFFVHPGTAECCTKEGLERKLCMAALKHQPQEFPTYVEPTNDEICEAFRK
DPKEYANQFMWEYSTNYGQAPLSLLVSYTKSYLSMVGSCCTSASPTVCFLKERLQKHLSSLTTLSNRVCSQYAA
YGEKKSRLSNLIKLAQKVPTADLEDVLPLAEDITNILSKCCESASEDCMAKELPEHTVKLCDNLSTKNSKFEDCC
QEKAMDV FVCTYFMFAAQLPELPDVELPTNKDVCDPGNTKVMKDYTFELSRRTHLPEVFLSKVLEPTLKSLGEC
CDVEDSTTCFNAKGPLLKKELSSFIDKGQELCADYSENTFTEYKKKLAERLKAKLPDATPTELAKLVNKHSDFA
NCCSINSPLYCDSEIDAELKNIL

1563/6881
FIGURE 1445

AGCTTTTCTCTTCTGTCAACCCACACGCCTTTGGCACAATGAAGTGGGTAACCTTTATTTCCCTTCTTTTTCTC
TTTAGCTCGGCTTATTCCAGGGGTGTGTTTCGTGAGATGCACACAAGAGTGAGGTTGCTCATCGGTTTAAAGAT
TTGGGAGAAGAAAATTTCAAAGCCTTGGTGTGATTGCCTTTGCTCAGTATCTTCAGCAGTGTCCATTTGAAGAT
CATGTAAAATTAGTGAATGAAGTAACTGAATTTGCAAAAACATGTGTTGCTGATGAGTCAGCTGAAAATTGTGAC
AAATCACTTCATACCCTTTTTGGAGACAAATTATGCACAGTTGCAACTCTTCGTGAAACCTATGGTGAAATGGCT
GACTGCTGTGCAAAACAAGAACCTGAGAGAAATGAATGCTTCTTGCAACACAAAGATGACAACCCAAACCTCCCC
CGATTGGTGAGACCAGAGGTTGATGTGATGTGCACTGCTTTTCATGACAATGAAGAGACATTTTTGAAAAAATAC
TTATATGAAATTGCCAGAAGACATCCTTACTTTTATGCCCCGGAACCTCCTTTTCTTTGCTAAAAGGTATAAAGCT
GCTTTTACAGAATGTTGCCAAGCTGCTGATAAAGCTGCCTGCCTGTTGCCAAGCTCGATGAACCTCGGGATGAA
GGGAAGGCTTCGTCTGCCAAACAGAGACTCAAGTGTGCCAGTCTCCAAAAATTTGGAGAAAGAGCTTTCAAAGCA
TGGGCAGTAGCTCGCCTGAGCCAGAGATTTCCCAAAGCTGAGTTTGCAGAAGTTTCCAAGTTAGTGACAGATCTT
ACCAAAGTCCACACGGAATGTGCCATGGAGATCTGCTTGAATGTGCTGATGACAGGGCGGACCTTGCCAAGTAT
ATCTGTGAAAATCAAGATTTCATCTCCAGTAACTGAAGGAATGCTGTGAAAAACCTCTGTTGAAAAATCCCAC
TGCATTGCCGAAGTGGAAAATGATGAGATGCCCTGCTGACTTGCCCTTCATTAGCTGCTGATTTTGTGAAAGTAAG
GATGTTTGCAAAAACATATGCTGAGGCAAAGGATGTCTTCCTGGGCATGTTTTGTATGAATATGCAAGAAGGCAT
CCTGATTACTCTGTCTGCTGCTGCTGAGACTTGCCAAGACATATGAAACCACTCTAGAGAAGTGCTGTGCCGCT
GCAGATCCTCATGAATGCTATGCCAAAGTGTTTCATGAATTTAAACCTCTTGTGGAAGAGCCTCAGAATTTAATC
AAACAAAATTGTGAGCTTTTTGAGCAGCTTGGAGAGTACAAATTCAGAATGCGCTATTAGTTCGTTACACCAAG
AAAGTACCCCAAGTGTCAACTCCAACCTCTTGTAGAGGTCTCAAGAAACCTAGGAAAAGTGGGCAGCAAAATGTTGT
AAACATCCTGAAGCAAAAAGAATGCCCTGTGCAGAAGACTATCTATCCGTGGTCCTGAACCAAGTTATGTGTGTG
CATGAGAAAACGCCAGTAAGTGACAGAGTCACCAATGCTGCACAGAATCCTTGGTGAACAGGCGACCATGCTTT
TCAGCTCTGGAAGTCGATGAAACATACGTTCCCAAAGAGTTTAAATGCTGAAACATTCACCTTCCATGCAGATATA
TGCACACTTTCTGAGAAGGAGAGACAAATCAAGAAACAACTGCACCTTGTGAGCTCGTGAAACACAAGCCCAAG
GCAACAAAAGAGCAACTGAAAGCTGTTATGGATGATTTTCGAGCTTTGTAGAGAAGTGCTGCAAGGCTGACGAT
AAGGAGACCTGCTTTGCCGAGGAGGGTAAAAAAGCTTGTGCTGCAAGTCAAGCTGCCTTAGGCTTATAACATCAC
ATTTAAAAGCATCTCAGCCTACCATGAGAATAAGAGAAAGAAAATGAAGATCAAAGCTTATTCATCTGTTTTTC
TTTTTCGTTGGTGTAAGCCAAACACCCTGTCTAAAAACATAAATTTCTTTAATCATTTTGCCTCTTTTCTCTGT
GCTTCAATTAATAAAAAATGGAAAGAATCTAATAGAGTGGTACAGCACTGTTATTTTTCAAAGATGTGTTGCTAT
CCTGAAAATTCTGTAGGTTCTGTGGAAGTTCCAGTGTTCTCTCTTATTCCACTTCGGTAGAGGATTTCTAGTTTC
TTGTGGGCTAATTAATAAATCATTAATACTCTTCTAAGTT

1564/6881
FIGURE 1446

TCCATATTGTGCTTCCACCACTGCCAATAACAAAATAACTAGCAACCATGAAGTGGGTGGAATCAATTTTTTTAA
TTTTCTACTAAATTTTACTGAATCCAGAACACTGCATAGAAATGAATATGGAATAGCTTCCATATTGGATTCTT
ACCAATGTACTGCAGAGATAAGTTTAGCTGACCTGGCTACCATATTTTTTGCCAGTTTGTTCAAGAAGCCACTT
ACAAGGAAGTAAGCAAAATGGTGAAAGATGCATTGACTGCAATTGAGAAACCCACTGGAGATGAACAGTCTTCAG
GGTGTTTAGAAAACCAGCTACCTGCCCTTTCTGGAAGAACTTTGCCATGAGAAAGAAATTTGGAGAAGTACGGAC
ATTCAGACTGCTGCAGCCAAAGTGAAGAGGGAAGACATAACTGTTTTCTTGACACAAAAAGCCCACTCCAGCAT
CGATCCCACTTTTCCAAGTTCAGAACCTGTCAAGCTGTGAAGCATATGAAGAAGACAGGGAGACATTCATGA
ACAAATTCATTTATGAGATAGCAAGAAGGCATCCCTTCTGTATGCACCTACAATCTTCTTTGGGCTGCTCGCT
ATGACAAAATAATTCATCTTGCTGCAAGCTGAAATGCAGTTGAATGCTTCCAAACAAAGGCAGCAACAGTTA
CAAAAGAATTAAGAGAAAGCAGCTTGTTAAATCAACATGCATGTGCAGTAATGAAAAATTTGGGACCCGAAGTT
TCCAAGCCATAACTGTTACTAACTGAGTCAGAAGTTTACCAAAGTTAATTTTACTGAAATCCAGAACTAGTCC
TGGATGTGGCCCATGTACATGAGCACTGTTGCAGAGGAGATGTGCTGGATTGTCTGCAGGATGGGGAAAAATCA
TGTCTACATATGTTCTCAACAAGACACTCTGTCAAACAAAATAACAGAATGCTGCAAACTGACCACGCTGGAAC
GTGGTCAATGTATAATTATGCAGAAAATGATGAAAAACCTGAAGGTCTATCTCAAATCTAAACAGGTTTTTAG
GAGATAGAGATTTTAACCAATTTTCTTCAGGGGAAAAAATATCTTCTTGGCAAGTTTGTTCATGAATATCAA
GAAGACATCCTCAGCTTGCTGTCTCAGTAATTCTAAGAGTTGCTAAAGGATACCAGGAGTTATTGGAGAAGTGTT
TCCAGACTGAAAACCCCTCTTGAATGCCAAGATAAAGGAGAAGAAGATTACAGAAATACATCCAGGAGAGCCAAG
CATTGGCAAAGCGAAGCTGCGGCCTCTTCCAGAACTAGGAGAATATTACTTACAAAATGCGTTTCTCGTTGCTT
ACACAAAGAAAGCCCCCAGCTGACCTCGTCGGAGCTGATGGCCATCACCAGAAAAATGGCAGCCACAGCAGCCA
CTTGTGTCCTCACTCAGTGAGGACAACTATTGGCCTGTGGCGAGGGAGCGGCTGACATTATTATCGGACACTTAT
GTATCAGACATGAAATGACTCCAGTAAACCCCTGGTGTGGCCAGTGTGCACTTCTTCATATGCCAACAGGAGGC
CATGCTTCAGCAGCTTGGTGGTGGATGAAACATAIGTCCCTCCTGCATTCTCTGATGACAAGTTTCAATTTCCATA
AGGATCTGTGCCAAGCTCAGGGTGTAGCGCTGCAACGATGAAGCAAGAGTTTCTCATTAACTTGTGAAGCAAA
AGCCACAAATAACAGAGGAACAACCTTGAGGCTGTCTGAGATTTCTCAGGCCTGTTGGAGAAATGCTGCCAAG
GCCAGGAACAGGAAGTCTGCTTTGCTGAAGAGGGACAAAACTGATTTCAAAAACCTCGTGTGCTTTGGGAGTTT
AAATTACTTCAGGGGAAGAGAAGACAAACGAGTCTTTCATTGGTGTGAAGTCTTCTCTTTAATTTAACTGAT
TTAACACTTTTTGTGAATTAATGAAATGATAAAGACTTTTATGTGAGATTCCTTATCACAGAAATAAAATATCT
CCAAATG

1565/6881
FIGURE 1447

MKWVESIFLIFLLNFTESRTLHRNEYGIASILDSYQCTAEISLADLATIFFAQFVQEATYKEVSKMVKDALTAIE
KPTGDEQSSGLENQLPAFLEELCHEKEILEKYGHSDCCSQSEGRHNCF LAHKKPTPASIPLFQVPEPVTSC EA
YEEDRETFMNKFIYEIARRHPFLYAPTILLWAARYDKIIPSCCKAENAVECFQTKAATVTKE LRESSLLNQHACA
VMKNFGTRTFQAITVTKLSQKFTKVNFTETIQKLVLDDVAHVHEHCCRGDVLDCLODGEKIMSYICSQQDTLSNKIT
ECCKLTTLERGQCIIHAENDEKPEGLSPNLNRFLGDRDFNQFSSGEKNIFLASFVHEYSRRHPQLAVSVILRVAK
GYQELLEKCFQTENPLECQDKGEEELQKYIQESQALAKRSCGLFQKLGEYYLQNAFLVAYTKKAPQLTSSELMAI
TRKMAATAATCCQLSEDKLLACGEGAADIIIGHLCIRHEMTPVNPVGVCCTSSYANRRPCFSSLVVDETYVPPA
FSDDKFIFHKDLCQAQGVALQTMKQEF LINLVKQKPQITEEQLEAVIADFSGLLEKCCQGQEQEVCF AEEGQKLI
SKTRAALGV

1566/6881
FIGURE 1448A

TCAC TTGCCTGATATTTCCAGTGT CAGAGGGACACAGCCAACGTGGGGTCCCTTCTAGGCTGACAGCCGCTCTCC
AGCCACTGCCGCGAGCCCGTCTGCTCCCGCCCTGCCCGTGCACCTCTCCGCAGCCGCCCTCCGCCAAGCCCCAGCG
CCCGCTCCCATCGCCGATGACCGCGGGGAGGAGGATGGAGATGCTCTGTGCCGGCAGGGTCCCTGCGTGCTGCT
CTGCCTGGGTTTCCATCTTTCTACAGGCAGTCCCTCAGTACAACGTGTGATTCCATCATGTATCCCAGGAGAGTCCAG
TGATAACTGCACAGCTTTAGTT CAGACAGAAGACAATCCACGTGTGGCTCAAGTGTCAATAACAAAGTGTAGCTC
TGACATGAATGGCTATTGTTTG CATGGACAGTGCATCTATCTGGTGGACATGAGTCAAAACTACTGCAGGTGTGA
AGTGGGTTTACTGGTGTCCGATGTGAACACTTCTTTTAAACCGTCCACCAACCTTTAAGCAAAGAATATGTGGC
TTTGACCGTGATTCTTATTATTTTGTTCCTTATCAGAGTCGTGGTCCACATATTATTTCTGCAGATGGTACAG
AAATCGAAAAAGTAAAGAACCAAAGAAGGAATATGAGAGAGTTACCTCAGGGGATCCAGAGTTGCCGCAAGTCTG
AATGGCGCCATCAAACCTTATGGGCAGGGATAACAGTGTGCCTGGTTAATATTAATATTTCCATTTTATTAATAAT
ATTTATGTTGGGTCAAGTGT TAGGTCAATAACACTGTATTTAATGTACTTGAAAAATGTTTTATTTTGT
ATTTTGTACAGACTATTTGCTAATGTATAATGTGCAGAAAATATTTAATATCAAAAGAAAATTGATATTTTATA
CAAGTAATTTCCTGAGCTAAATGCTTCATTGAAAGCTTCAAAGTTTATATGCCTGGTGCACAGTGTCTAGAAGTA
AGCAATTTCCAGGTCATAGCTCAAGAATTGTTAGCAAATGACAGATTTCTGTAAGCCTATATATATAGTCAAATC
GATTTAGTAAGTATGTTTTTATGTTCTCAAATCAGTGATAATTGGTTTGACTGTACCATGGTTTGATATGTAG
TTGGCACCATGGTATCATATATTAACAATAATGCAATTAGAATTGGGAGAAGCAAATATAGGTCCTGTGTTA
AACACTACACATTTGAAACAAGCTAACCCCTGGGGAGTCTATGGTCTCTTCACTCAGGTCTCAGCTATAATTCTGT
TATATGAGGGGCACTGGACAGTTCCTATGCCAATCAGGACTCCTACAGGTACTAGTCACTCATCTACCAGATT
CTGCCTATGTAAATGAATTGAAAAACAATTTCTGTAATCTTTTATTTAAGTAGTGGGCATTTTATAGCTTCAC
AATGTTCTTTTTTGTATATTACAACATTTATGTGAGGTAATTATTGCTCAACAGACAATTAGAAAAAGTCCAC
ACTTGAAGCCTAAATTTGTGCTTTTAAAGATATTTTAGACTATTTCTTTTATAGGGGCTTTGCTGAATTTCTA
ACATTAAATCAGAGCCCAAATTTGATGGACTAATTATTATTTTAAATATATGAAGACAATAATTCTACATGTT
GTCTTAAGATGGAAATACAGTTATTTTCATCTTTTATTCAAGGAAGTTTAACTTTAATACAGCTCAGTAAATGGC
TTCTTCTAGAATGTAAAGTTATGTATTTAAAGTTGTATCTTGACACAGGAAATGGGAAAAACTTAAAAATTAAT
ATGGTGTATTTTCCAAATGAAAAATCTCAATTGAAAGCTTTTAAATGTAGAACTTAAACACACCTTCCTGTG
GAGGCTGAGATGAAACTAGGGCTCATTTTCTTGACATTTGTTTATTTTGGGAAGAGACAAAGATTTCTTCTGC
ACTCTGAGCCCATAGGTCTCAGAGAGTTAATAGGAGTATTTTGGGCTATTGCATAAGGAGCCACTGCTGCCACC
ACTTTTGGATTTTATGGGAGGCTCCTTCATCGAATGCTAAACCTTTGAGTAGAGTCTCCTGGATCATATACCAG
GTCAGGGAGGATCTGTTCTTCTCTACGTTTATCCTGGCATGTGCTAGGGTAAACGAAGGCATAATAAGCCATGG
CTGACCTCTGGAGCACCAGGTGCCAGGACTTGTCTCCATGTGTATCCATGCATTATATACCCTGGTGCAATCACA
CGACTGTATCTAAAGTCTTGGCCCTGGCCCTTACTATTAGGAAATAAACAGACAAAAACAAGTAAATATATAT
GGTCATATACATATTGTATATATATTCATATACAAACATGTATGTATACATGACCTTAATGGATCATAGAATTGC
AGTCATTTGGTGTCTGTCTAACCATTATATAAACTTAAAAACAAGAGAAAAGAAAATCAATTAGATCTAAAC
AGTTATTTCTGTTTCTTATTTAATACAGCTGAAGTCAAATATGTAAGAACACATTTTAAATACTCTACTTACAG
TTGGCCCTCTGTGGTTAGTTCCACATCTGTGGATTCAACCAACCAAGGACGGAATGCTTAAAAATAATACAA
CAACAACAAAAAATACATTATAACAACATTTTACTTTTTTTTTTCTTTTGGAGATGGAGTCTCGCTCTGTTGC
CCAGGTTGGAGTGCAGTGGCAGATCTCGGCTCACTGCAACCTCACCTCCCGGGTTCAAGAGATCCTCCTGCCTC
AGCCTCCTGAGCAGCTGGGACTACAGCGCATGCCACCATGCCAGCTAATTTTTGTATTTTATAGTAGAGCGGG
GTTTACCATGTTGGCCAGGATGGTCTCAATCTCCTAACCTTGAGATCCACCCTCCACAGCCTCCCAAACCTGCTG
GGATTACAGGTGTGAGCCACCGCACGTAGCATTTACATTAGGTATTACAAGTAATGTAAAGATGATTTAAGTATA
CAGGAGGATGTGAATAGGTTATATGCAAGCACTATGCCCTTTTATATAAGTGACTTGAACATCTGTGCCCGATT
TAGTATGTGCAGGGGGCGATCTGGGAATCAGTCCCTGTGGATACCAAGGTACAACGTGATTTTATTAACGCTTA
CTAGATGTGAGGAGAGTCTGAATATTTTCAGTGATCTTGGCTGTTTCAAAAAATCTATTGACTTTTCAATAAAT
CAGCTGCAATCCATTATTTTCATTTACAAAAGATTTATTGTAAAGCATCTCAATCTTGGTTTGTGAGTTTATCTTA
AGCATGTCAATTCATAAAAAACAAGTCAATTTTGTATTTTTCATCTTTAAGAAATGCTTAAAAAGCTAATCCCTAA
AATAGTTAGATCTTTGTAAATGCATATTAATAATAAAGATGACCCACATTACTTTTTATGGGTGAAAATAAGA
CAAAAATAATAGTTTGTAGGATGGTGTGCTGAGTAAACATAAAAACTGATTTGCTCTCAGCTGATGTGCTCTGT
ACACAGTGGGAAGATTTTAGTTACACTTAGTCTAACCCCCATTTTACAGATTTTCTCATATATATATTCTA

1567/6881

FIGURE 1448B

GAAGGGGCTATGCATATTCAATGTATTGAGAACCAAAGCAACCACAAATGCATAAATGCATAATTTATGGTCTTC
AACCAAGGCCACATAATAACCCAGTTAACTTACTCTTTAACCAGGAATATTAAGTTCTATAACTAGTACTCAAGG
TTTAACCTTAAAATTAAGATTTTCCTTAACCTTAACCTTAAAATTGATATTATATTAAACATACATAATACAATGT
AACTCCACTGTTCTCCTGAATATTTTTTGCTCTAATCTCTCTGCCGAAAGTCAAAGTGATGGGAGAATTGGTATA
CTGGTATGACTACGTCTTAAGTCAGATTTTTATTTATGAGTCTTTGAGACTAAATCAATCACCACCAGGTATCA
AATCAACTTTTATGCAGCAAATATATGATTCTAGTGTCTGACTTTTGTTAAATTCAGTAATGCAGTTTTTAAAAA
CCTGTATCTGACCCACTTTGTAATTTTTGCTCCAATATCCATTCTGTAGACTTTTGAAAAAAAGTTTTTAATTT
GATGCCCAATATATTCTGACCGTTAAAAAATCTTGTTTCATATGGGAGAAGGGGGAGTAATGACTTGTACAAACA
GTATTTCTGGTGTATATTTTAATGTTTTTAAAAAGAGTAATTCATTTAAATATCTGTTATTCAAATTTGATGAT
GTTAAATGTAATATAATGTATTTTCTTTTTATTTTGCACCTCTGTAATTGCACTTTTTAAGTTTGAAGAGCCATTT
TGGTAAACGGTTTTTTATTAAGATGCTATGGAACATAAAGTTGTATTGCATGCAATTTGAAGTAACTTATTTGAC
TATGAATGTTATCGGATTACTGAATTGTATCAATTTGTTTGTGTTCAATATCAGCTTTGATAATTGTGTACCTTA
AGATATTGAAGGAGAAAATAGATAATTTACAAGATATTATTAATTTTTATTTATTTTCTTGGAATTGAAAAAA
ATTGAAATAAATAAAAATGCATTGAACATCTTGCAATCAAATCTTCACTGAC

1568/6881
FIGURE 1449

CCCGCGAGCGGACGCGGCAGCGCCTCTGTCTCGCTTTTCTTATTTTCCCCCTTTCCCCTTTCTTTTTTTTTT
TTTTTTTTCTTTCTCCCCCTCCCCCTTTTACCATTTCCTTCGGAGGCGCTTTCCCGGGCAGGGGCAGAGCC
GGTCTCACCCCCCGCTCTCCCCGGCCCCCGCCGCTATGGCGAGAGGGAGCCCCCTCCAACCGGGCTCGAG
CGGCGGCGGCCTCAGGCCGGGGGTCACTCATGGAATAATTGCTGACCGACCCAGCGGCCGAGCCGTGCGTCCC
GCTCGAGCGCCAGCGCCCCGCGCCCCGCGCCCCCGATCCGCTTCCCCTTTCTCCCTCCTCAGTTGGCCGAGTCGTC
CCGCGCGCACCGCTCCGCGCGCCTATGAGAATGAGGTGGTAACGGGCCCCCGGATGACCCCGCGTCACCACTGT
GAGGCCTACAGCTCTGCCGGGGAGGAGGAGGAGGAGGAAGAGGAGGAGAAGGTAGCTACAGCAAGCTGGGTAGCA
GGCAGATCCAAAGGATATCATGAAGTTTCCAGGGCCTTTGGAAAACCAGAGATTGTCTTCTCTGTGGAAAAGGC
AATCACTAGGGAAGCACAGATGTGGAAAGTGAATGTGCGGAAAATGCCTTCAAATCAGAATGTTTCTCCATCCCA
GAGAGATGAAGTAATTCAATGGCTGGCCAACTCAAGTACCAATTCAACCTTTACCCAGAAACATTTGCTCTGGC
TAGCAGTCTTTTGGATAGGTTTTTAGCTACCGTAAAGGCTCATCCAAAATACTTGAGTTGTATTGCAATCAGCTG
TTTTTTCCTAGCTGCCAAGACTGTTGAGGAAGATGAGAGAATTCCAGTACTAAAGGTATTGGCAAGAGACAGTTT
CTGTGGATGTTCTCATCTGAAATTTTGAGAATGGAGAGAATTATTCTGGATAAGTTGAATTGGGATCTTCACAC
AGCCACACCAATTGGATTTTCTTCATATTTTCCATGCCATTGCAGTGTCAACTAGGCCTCAGTTACTTTTCAGTTT
GCCCCAATTGAGCCCATCTCAACATTTGGCAGTCCTTACCAAGCAACTACTTCACTGTATGGCCTGCAACCAACT
TCTGCAATTCAGAGGATCCATGCTTGCTCTGGCCATGGTTAGTCTGGAAATGGAGAACTCATTCTGATTGGCT
TTCTCTTACAATTGAAGTCTTCAGAAAGCACAGATGGATAGCTCCAGTTGATCCATTGTCGGGAGCTTGTGGC
ACATCACCTTTCTACTCTGCAGTCTTCCCTGCCTCTGAATTCCGTTTATGTCTACCGTCCCCCTCAAGCACACCTT
GGTGACCTGTGACAAAGGAGTGTTCAGATTACATCCCTCCTCTGTCCCAGGCCAGACTTCTCCAAGGACAACAG
CAAGCCAGAAGTGCCAGTCAGAGGTACAGCAGCCTTTTACCATCATCTCCAGCTGCCAGTGGGTGCAAGCAGAC
CTCTACTAAACGCAAAGTAGAGGAAATGGAAGTGGATGACTTCTATGATGGAATCAAACGGCTCTATAATGAAGA
TAATGTCTCAGAAAATGTGGGTCTGTGTGTGGCACTGATTTATCAAGACAAGAGGGACATGCTTCCCCTTGTCC
ACCTTTGCAGCCTGTTTCTGTGATGTAGTTTCAACAAGTGCTACCTTTGAGTGTAAGTAAAGGTAGACTACTTTG
GGAATGAGAACATGCAAAATCAGGAAAGGCTGTAGAAGGAAATATACCTTAACAGGCTGATTTGGAGTGAGCCAG
AAAAAAAAAATAAACTCTCATTATTTGTGTGGCTAATTATAATTCAGCGTTATTTAAGCACATAAAGACCAAAA
AAAAAAAAAAAAAAAAA

1569/6881
FIGURE 1450

MKFFGPLENQRLSFLLEKAITREAQMWKVNVRKMPSNQNVSPQRDEVIQWLAKLKYQFNLYPETFALASSLLDR
FLATVKAHPKYLSCIAISCFFLAAKTVEEDERIPVLKVLARDSFCGCSSEILRMERIILDKLNWDLHTATPLDF
LHIFHAIIVSTRPQLLFSLPKLSPSQHLAVLTKQLLHCAQCNQLLQFRGSMLALAMVSLEMEKLIPDWLSLTIEL
LQKAQMDSSQLIHCRELVAAHHLSTLQSSPLNSVYVYRPLKHTLVTCDKGVFRLHPSSVPGPDFSKDNSKPEVPV
RGTAIFYHHLPAASGCKQTSTKRKVEEMEVDIFYDGIKRLYNEDNVSENVGSGTDLRSRQEGHASPCLPQVS
VM

1570/6881
FIGURE 1451

CCTGGACTCAGAGCTCAAGTCTGAACTCTACCTCCAGACAGAATGAAGTTCATCTCGACATCTCTGCTTCTCATG
CTGCTGGTCAGCAGCCTCTCTCCAGTCCAAGGTGTTCTGGAGGTCTATTACACAAGCTTGAGGTGTAGATGTGTC
CAAGAGAGCTCAGTCTTTATCCCTAGACGCTTCATTGATCGAATTCAAATCTTGCCCCGTGGGAATGGTTGTCCA
AGAAAAGAAATCATAGTCTGGAAGAAGAACAAGTCAATTGTGTGTGTGGACCCCTCAAGCTGAATGGATACAAAGA
ATGATGGAAGTATTGAGAAAAAGAAGTTCTTCAACTCTACCAGTTCAGTGTTTAAGAGAAAGATTCCCTGATGC
TGATATTTCCACTAAGAACACCTGCATTCTTCCCTTATCCCTGCTCTGGATTTTAGTTTTGTGCTTAGTTAAATC
TTTTCCAGGAAAAAGAACTTCCCCATACAAATAAGCATGAGACTATGTAAAAATAACCTTGAGAAGCTGATGGG
GCAAACTCAAGCTTCTTCACTCACAGCACCCCTATATACACTTGGAGTTTGCATTCTTATTCATCAGGGAGGAAAG
TTTCTTTGAAATAGTTATTTCAGTTATAAGTAATACAGGATTATTTTGATTATATACTTGTTGTTTAAATGTTTAA
AATTTCCTTAGAAAACAATGGAATGAGAATTTAAGCCTCAAATTTGAACATGTGGCTTGAATTAAGAAGAAAATTA
TGGCATATATTAAAAGCAGGCTTCTATGAAAGACTCAAAAAGCTGCCTGGGAGGCAGATGGAAGCTTGAGCCTGTC
AAGAGGCAAAGGAATCCATGTAGTAGATATCCTCTGCTTAAAACTCACTACGGAGGAGAATTAAGTCCTACTTT
TAAAGAATTTCTTTATAAAATTTACTGTCTAAGATTAATAGCATTCTGAAGATCCCCAGACTTCATAGAATACTCA
GGGAAAGCATTAAAGGGTGATGTACACATGTATCCTTTCACACATTTGCCTTGACAACTTCTTCACTCACAT
CTTTTTCACTGACTTTTTTTGTGGGGGGCGGGGCCGGGGGACTCTGGTATCTAATTCTTTAATGATTCCTATAA
ATCTAATGACATTCAATAAAGTTGAGCAAACATTTTACTT

1571/6881
FIGURE 1452

ATGGTTTATCAGACATCACTTTGTTCTTGTCTGTAAACATCCGAGTGCCCAACAGACATTTTGCTGCTGCTACA
AAGTCTGCAAAGAAAACAAAAAAGGTGCTAAAGAAAAACACCAGATGAGAAAAAGATGAAATAGAAAAATA
AAAGCATATCCCTATATGGAAGGCGAACCTGAGGATGATGTCTATTTAAACGCTTATACCCGAGACAGATATAT
GAGGTGGAGAAAGCTGTTCACCTTACTTAAGAAATTTCAAATTCTTGACTTTACTAGTCCAAAGCAAAGTGTTTAT
CTTGATTGACACTGGATATGGCACTGGGAAAGAAGAAAAACGTGGAGCCATTACCAAGTGTTCTTAGTTTGCCA
TACCCATTGCTTCCGAAATCAATAAAGTTGCTGTATTTACAGAGAATGCATCAGAGGTCAAATAGCGGAAGAA
AATGGAGCTGCATTGTCAGGAGGCACTAGTCTGATACAGAAGATTTGGGATGATGAAATTGTTGCAGACTTTTAC
GTAGCTGTTCCAGAAATAATGCCTGAACTTAATCGATTAAAGGAAGAACTGAATAAAAAATATCCAAAGCTTTCT
CGAAATTCCATTGGCCGTGACATCCCCAAATGCTTGAATTATTTAAAAATGGACATGAAATTAAGGTAGATGAA
GAAAGGGAGAACTTTCTCCAGACCAAATAGCAACATTGGATATGTCAAGTGACCAGATAGCTGCCAATCTGCAA
GCAGTTATTAATGAAGTTTGTAGGCACAGACCGCTGAATTTGGGTCCCTTTGTGGTACGTGCTTTCCTTCGTAGT
TCAACAAGTGAAGTTTATTACTGAAGATTGATCCATTGTTGCCTAAAGAAGTAAAAAATGAAGAAAGTGAAAAA
GAAGATGCCTAA

1572/6881
FIGURE 1453

GTGGGAAGAGCTGAAGCAGGCGCTCTTGGCTCGGCGCGGCCGCTGCAATCCGTAGAGGAACCCGCCGCCGAGCC
ACCATCATGCTGCTGGGCACTTACAGGAAGGCTTCGGCTGTGTGGTCACCAACCGATTTCGACCAGTTATTGACGAC
GAATCGGACCCCTTCGAGGTGCTGAAGGCAGCGGAGAACAAGAAAAAGAGCCGGCAGGGGTGGCGTTGGGGGC
CCTGGGGCCAAGAGCGCAGCTCAGGCGGCGGCCAGACCAACTCCAACGCGGCAGGCAAACAGCTGCGCAAGGAG
TCCCAGAAAGACCGCAAGAACCCGCTGCCCCGCAGCGTTGGCGTGGTTGACAAGAAAGAGGAGACGCAGCCGCCC
GTGGCGCTTAAGAAAGAAGGAATAAGACGAGTTGGAAGAAGACCTGATCAACAACCTCAGGGGTGAGGGGAAAATA
ATTGATAGAAGACCAGAAAGGCAACCACCTTGTGAACGAAGATTGAAAAGCCACTTGAAGAAAAGGGTGAAGGA
GGCTAATTTTCAGTTGATAGACCGATTATTGACCGACCTATTTCGAGGTCGTGGTGGTTTGGAAAGAGGTCGAGGG
GGCCGTGGACGTGGAATGGGCCGAGGAGATGGATTGATTCTCGTGGCAAACGTGAATTTGATAGGCATAGTGGAA
AGTGATAGATCTCTTTTTCACATTACAGTGGCCTGAAGCACGAGGACAAACGTGGAGGTAGCGGATCTCACAAC
TGGGGAACTGTCAAAGACGAATTAACCTGACTTGGATCAATCAAATGTGACTGACGAAACACCTGAAGGTGAAGAA
CATCATCCAGTGGCAGACACTGAAAATAAGGAGAATGATGTTGAAGAGGTAAAAGAGGAGGGTCCAAAAGAGATG
ACTTTGGATGAGTGAAGGCTATTCAAATAAGGACCGGGCAAAGTAGAATTTAATATCTGAAAACCAAATGAA
GGTGCTGATGGGCAGTGAAGAAGGGATTGTTTTTCATAAATCAAAGAGTGAAGAGGCTTATGCTGAGGATTCAG
TTATGGACCATCATTTCCAGAAGCCAGCAAATGATATAACGTCTCAGCTGGAGATCAATTTTGGAGACCTTGGCC
GCCCAGGACGTGGCGGCAGGGGAGGACAAGGTGGACATGGGCGTGGTGGGCGCCCAAACCGTGGCAGCAGGACCG
ACAAGTCAAGTACTTCTGCTCCTGATGTGGATGACCCAGAGGCATTCCAGTTCTGGCTTAACCTGGATGCCATAA
GACAACCCCTGGTTCCTTCGTGAACCCCTTCTGTTCAAAGCTTTTGCATGCTTAAGGATTCCAAATGACAAATTA
AAAAAAAAGACTGTCAATTCATACCAATTCACACCTAAAGACTGAATTTTATCTGTTTCAAAAATGAACCTTATCT
CGCTACACAGAAGTAACAAATATGGTAGTCAGTTTTGTATTTAGAAATGTATTGGTAGCAGGGATGTTTTTCATAA
TTTTCAGAGATTATGCATTCTTCATGAATACTTTTGTATTGCTGCTTGCAAATATGCATTTCCAACTTGAAATA
TAGGTGTGAACAGTGTGTACAGTTTAAAGCTTTCACTTCATTTGTGTTTTTAATTAAGGATTTAGAAGTTCCC
CCAATTACAACTGGTTTTAAATATTGGACATACTGGCTTTAATACATGCTTTGCATATTACACATGATCAACT
GGGACATGTTAACTTTGATTTGTCAAATTTTATTCTGTGTGGAATACTAATATATGTATTTAACTTAGTTTT
AATATTTTCATTTTGGGGAAAAATCTTTTTTCACTTCTCATGATAGCTGTTATATATATATGCTAAATCTTTAT
ATACAGAAATATCAGTACTTGAAGAAA

1573/6881
FIGURE 1454

MPGHLQEGFGCVVTNRFDQLFDDSDPFVLKAAENKKKEAGRGVGGPGAKSAAQAAQTNSNAAGKQLRKESQ
KDRKNPLPRSVGVVDKKEETQPPVALKKEGIRRVGRRPDQQLQEGEKIIDRRPERQPPCERRFEKPLEEKGEGG

FIGURE 1455

AGACGCAGTCTCCGTCGTTGACGTTAGTCGCGACTCTTCGCTGCTAACGTTTTTGTATTAGTGTGCTAAAATGGTGTA
AATGCTGCTCCGCCATTGGATGTGCTTCTCGCTGCTTGCCAAATTCGAAGTTAAAAGGACTGACATTTACGTAT
TCCCCACAGATGAAAACATCAAAGGAAATGGGTATTAGCAATGAAAAGACTTGATGTGAATGCAGCCGGCATT
GGGAGCCTAAAAAAGGAGATGTGTTGTGTTTCGAGGCACTTTAAAGACAGATTTTGACAGAAGTGCTCCAAATA
TTAAACTGAAACCTGGAGTCATACCTTCTATCTTTGATTCTCCATATCACCTACAGGGGAAAAGAGAAAAAATT
ATTGTAGAAAAAATTACCCCTCAAACCGTTCCAGCCACTAACTACAATCACCATCTTGTTGGTGCTTCTCTCA
GTATTGAAGAATTCCAATCCCAGTTCATTTTTGAACATAGCTACAGTGTAATGGACAGTCCAAAGAACTTAAGC
ATAAATTAGATCATGTGATCGGCGAGCTAGAGGATACAAAGGAAAGTCTACGGAATGTTTTAGACCGAGAAAAAC
GTTTTAGAAATCATTGAGGAAGACAATCAGGGAATTAAGGATGAATGTCTGATCAGCCAAGAAAACAGCAAATA
GACTGGACACTTTCTGTTGGGACTGTTGTCAGGAGAGCATAGAACAGGACTATATTTTCATGAAATAATTTTCATGT
TACGTTCCACCTAAAATTGTCAATTGGTACAAAATTTTTATAAAATCTCATTACCATCACTAAATAATATCCATCA
TTTAAAGTGCTGCTTTGGATTCTCGGGACATTATGCATTATAGTTGTTATCCAAAGACTTTTTTGAAAATATGC
AGAAATTTGTGGTAATTATGTATTTGTGCTTGTGACAATTATGTTTTATAGACCTACACTAGTGCCAGGTCACT
ATTGTAAGATGTTAAATCTCAAGAAAATTTACAGAGCTAAAAGAAATGATGTCAAATTAGTCACATTAAGCTAT
AGTAGAAGGAATTGGACACTTCTCCAGATATTTGGCTTCAAAGGAGTACCTTTACTTACATGTGCTTTATGGTAA
GTACATTGAATTTTACTTTAAATGCATTTTACTACAAAGCACAATTCATTTGTAATGCATATCCATCTTGGATT
AATCCAAGGTGCTTTAGCTATCAGTAGTACCAAAGGATCTTTTTACAAGGCTTCTGTGGTATTGACTCTGAGAA
TAACACATAGTGAAGATCTGTGGGCTTTTAAAAATTGTTACAGCCAATTTAAGAAGACCCCTCATGAAGTCTCAG
TTTTCAGTACAGTACATCATTCCTCCTCACTAGGAGCACTTTGATGTAAACCAGAATAGCTTTAAAAAGACAAA
AGGATCGTAGATCTGATTTTTTAAATGGTTGGTTGCTCTGACAGATCTGAACACTTTGCTTCATGACTATTTCTGTC
ATAAAGGTATATGTTTTAAATCTGAATGGCAGTACTAGCTCTATACTTTTAATACTGCTTTGTATTTTATATGTA
AAGTAGTATTGCTGACATTTTAAAAAATACAAAATACAAAAGAAACCATTAGAAAATTAATACTGTGGCTCTTC
CAGTTGAAATAGGAATTGGAGAGAAAGGATTAGAATATTTTAATTAGGGGAGTAGATTATTGTCCAAAGGCTTTT
ATTTAGAGAAACGGGTAATTTAAACAGCAGCTTTAGAATAGCTTCTTACTGAATATGCAAAGAATAATTCCTTG
TTATTTCTAATTGATCCAAGTCTCATAAATTTAGCTTTTGTGATAATTCCTTACCGAAAACAACTGAAATTGAG
AGTCATAAATACTGTGGGTTAGAATAAAAAACCATTTGCCAAAGCAACACTCTACTTAGAAGCACATGTACATACA
TGGACCTCATTACAGAAGTCCATGTTGTAGCAGTTAGAATTTGAGTATCAGCCATTTATTGTAGTAACAAAAATT
GAATTGCATTTTGTGCTCAGTTGTTTATTGTAATTTTATTTTGTACATTAATATTAGTTAAGATATGGTCACT
TGAATTTTTTGTATTTAAGAATTTTCTGTTTTAATGCATGTTATACTTTTATGTAGGATTCCAAACCTTCCCTCT
AAATGGGATTTAACCACATCTGCGAGATCAGCGTTATGCTAAGAGGAAATCACTGAGGCCATATCTTTTACAA
TCTGAAAAAAAAGTAGTAAAAAGGTAGTTAAAAA

1575/6881
FIGURE 1456

CGGCGCCATTAAAGCGAGGAGGAGGCGAGAGCGGCCGCCGCTGCTGCTTATTCTTTTTTAGTGACGGGAGAGA
GCGGGAGTGTGCGCCGCGGAGAGTGGGAGGCGAAGGGGGCAGGCCAGGGAGAGGCGCAGGAGCCTTTGCAGCCA
CGCGCGCGCCTTCCCTGTCTTGTGTGCTTCGCGAGGTAGAGCGGGCGCGGGCAGCGGGGGATTACTTTGCTG
CTAGTTTCGGTTTCGCGGCAGCGCGGGTGTAGTCTCGGCGGCAGCGGCGGAGACACTAGCACTATGTCGGAGGAG
CAGTTTCGGCGGGGACGGGGCGGCGGAGCGGCAACGGCGGGCTAGGCGGCTCGGCGGGCGAGCAGGAGGGAGCC
ATGGTGGCGGGCAGACAGGGGGCAGCGGCGGCGGCGGGAAGCGGAGCCGGGACCGGGGGCGGAACCGCTCTGGA
GGCACCGAAGGGGGCAGCGCCGAGTCGGAGGGGGCGAAGATTGACGCCAGTAAGAACGAGGAGGATGAAGGCCAT
TCAAACCTCCTCCACGACACTCTGAAGCAGCGACGGCACAGCGGGAAGAATGGAATGTTTATAGGAGGCCTT
AGCTGGGACACTACAAAGAAAGATCTGAAGGACTACTTTTCCAAATTTGGTGAAGTTGTAGACTGCACTCTGAAG
TTAGATCCTATCACAGGGCGATCAAGGGGTTTTGGCTTTGTGCTATTTAAAGAATCGGAGAGTGTAGATAAGGTC
ATGGATCAAAAAGAACATAAATTGAATGGGAAGGTGATTGATCCTAAAAGGGCCAAAGCCATGAAAACAAAAGAG
CCGGTTAAAAAATTTTTGTTGGTGGCCTTTCTCCAGATACACCTGAAGAGAAAATAAGGGAGTACTTTGGTGGT
TTTGGTGAGGTGGAATCCATAGAGCTCCCCATGGACAACAAGACCAATAAGAGGCGTGGGTTCTGCTTTATTACC
TTTAAGGAAGAAGAACCAAGTGAAGAAGATAATGGAAAAGAAATACCACAATGTTGGTCTTAGTAAATGTGAAATA
AAAGTAGCCATGTGAAGGAACAATATCAGCAACAGCAACAGTGGGGATCTAGAGGAGGATTTGCAGGAAGAGCT
CGTGGAAGAGGTGGTGACCAGCAGAGTGGTTATGGGAAGGTATCCAGGCGAGGTGGTCATCAAAATAGCTACAAA
CCATACTAAATTATCCATTTGCACTTATCCCCAACAGGTGGTGAAGCAGTATTTTCCAATTTGAAGATTCATT
TGAAGGTGGCTCCTGCCACCTGCTAATAGCAGTTCAAATAAATTTTTGTATCAAGTCCCTGAATGGAAGTATG
ACGTTGGGTCCCTCTGAAGTTTAATTCTGAGTTCTCATTAAAGAAATTTGCTTTCATTGTTTTATTCTTAATT
GCTATGCTTCAGAATCAATTTGTGTTTTATGCCCTTTCCCCCAGTATTGTAGAGCAAGTCTGTGTTAAAAGCCC
AGTGTGACAGTGTATGATGTAGTAGTGTCTTACTGGTTTTTTAATAAATCCTTTTGTATAAAAATGTATTGGCT
CTTTTATCATCAGAATAGGAAAAATTGTCATGGATTCAAGTTATTAAGCATAAGTTTGAAGACAGGCTTGCC
GAAATTGAGGACATGATTAAATTCAGTGAAGTTTGAAATGTTTTAGCAAAATCTAATTTTGCCATAATGTG
TCCTCCCTGTCCAAATTGGGAATGACTTAATGTCAATTTGTTTGGTGGTGTGTTAATAATACTTCCTTATGTAG
CCATTAAGATTTATATGAATATTTTCCCAAATGCCAGTTTTTGCTTAATATGTATTGTGCTTTTGTAGAACAAT
CTGGATAAATGTGCAAAAGTACCCCTTGCACAGATAGTTAATGTTTTATGCTTCCATTAAATAAAAAGGACTTA
AAATCTGTTAATTATAATAGAAATGCGGCTAGTTCAGAGAGATTTTAGAGCTGTGGTGGACTTCATAGATGAAT
TCAAGTGTTGAGGGAGGATTAAAGAAAT

FIGURE 1457A

[illegible]

1577/6881
FIGURE 1457B

CAGAAGGATTGACCATGCATACCCACATAGTTAGCACCAGCAACTTCAGTGAGACCTCTGCTTTTCATGCCAGTTC
TCAAAGTTGTTCTCAGGCAATAAGCTGGGTGTCTAAAAGGACAGCTTCTCTTCCACTCAATATTGCCATT
TTTCCAAAGAAACATGTTAAAAAATAAATTATAAGACATGGACTAGTCCTCATTAGCATGTTTGCATAGCAACC
AGTCAAGAGCATTACACTATTTCTGCTGATATACTCACCTTAGAACTGCTCAGAACCTGGTGCTTTATTTTGG
TTTTAATCTTTTGTGCCAGTGATGATTTTCCTATTCTGCAAATAGTGTATTTCCTGGATTACACATAGTATGGT
TTCCTGAAGTATTCTGATAAAATGTGTTTTTTTAAACCTCAATATACTTTTGTAGAAAAGGAGCATCTGGTTATGC
ATAAAGCAGAGCTAAACTAAATTTCTTTCATGTCCTCCCTACTTCCTCAGTGTCAATCAGATTAAAGTGTGTAA
TCCT

1578/6881
FIGURE 1458

MKLKEVDRTAMQAWSPAQNHPYILATGTSAQQLDATFSTNASLEIFELDLSDPSLDMKSCATFSSSHRYHKLIWG
PYKMDSKGDVSGVLIAGGENGNIILYDPSKIIAGDKEVVIAQNDKHTGPVRALDVNIFQTNLVASGANESIYIW
DLNNFATPMTPGAQTQPPEDISCIAWNRRQVQHILASASPSGRATVWDLRKNEPIIKVSDHSNRMHCSGLAWHPDV
ATQMVLAASEDDRLPVIQMWDLRFASSPLRVLENHARGILAIASMADEPSELLSCGKDAKILCSNPNTGEVLYELP
TNTQWCFDIQWCPRNPAVLSAASFDGRISVYSIMGGSTDGLRQKQVDKLSSSFGNLDPFGTGQPLPPLQIPQOTA
QHSIVLPLKKPPKWIRRPVGASFSGGKLVTFENVRMPSHQAEQQQQQHHVFISQVVTEKEFLSRSDQLQQAQVQ
SQGFINYCQKKIDASQTEFEKNVWSFLKVNFEDDSRGKYLELLGYRKEDLGKKIALALNKVDGANVALKDSQQA
QSDGEESPAEEQLLGEHIKEEKEESEFLPSSGGTFNISVSGDIDGLITQALLTGNFESAVDLCLHDNRMAIAI
LAIAGGQELLARTQKKYFAKSQSKITRLITAVVMKNWKEIVESCDLKNWREALAAVLTAKPDEFSAICDLGTR
LENEGDSLQTOACLCYICAGNVEKLVACWTKAQDGSHPLSLQDLIEKVVILRKAVQLTQAMDTSTVGVLLAAKM
SQYANLLAAQGSIAAALAFDPDNTNQPNIMQLRDLRCRAQGEFVAGHESPKIPYEKQQLPKGRPGPVAGHHQMPR
VQTQQYYPHGENPPPPGFIMHGNVNPNASGQLPTSPGHMHTQVPPYPQPYQPAQPYPPFGTGGSAMYRPQQPVA
PPTSNAYPNTPYISSASSYTGSQLYAAHQASSPTSSPATSFPPPPSSGASFQHGPGAPPSSSAYALPPGTTG
TLPAASELPASQRTGPQNGWNDPPALNRVPKKKKMPENFMPPVPITSPIMNPLGDPQSQMLQQQPSAPVPLSSQS
SFPQPHLPGGQPFHGVQQPLGQTGMPPSFSKPNIEGAPGAPIGNTFQHVQSLPTKKITKKPIPDEHLILKTTFED
LIQRCLSSATDPQTKRKLDDASKRLEFLYDKLREQTLSPITITSGLHNIARSIETRNYSEGLTMHTHIVSTSNFSE
TSAFMPVLKVVLTAANKLGV

1579/6881
FIGURE 1459

GCAGAGCACAGCATCGTCGGGACCAGACTCGTCTCAGGCCAGTTGCAGCCTTCTCAGCCAAACGCCGACCAAGGA
AAACTCACTACCATGAGAATTGCAGTGATTTGCTTTTGCCCTCCTAGGCATCACCTGTGCCATACCAGTTAAACAG
GCTGATTCIGGAAGTTCTGAGGAAAAGCAGCTTTACAACAAATACCCAGATGCTGTGGCCACATGGCTAAACCT
GACCCATCTCAGAAAGCAGAATCTCCTAGCCCCACAGACCTTCCAAGTAAGTCCAACGAAAGCCATGACCACATG
GATGATATGGATGATGAAGATGATGATGACCATGTGGACAGCCAGGACTCCATTGACTCGAACGACTCTGATGAT
GTAGATGACACTGATGATTCTCACCAGTCTGATGAGTCTCACCATTCTGATGAATCTGATGAACGGTCACTGAT
TTTCCACGGACCTGCCAGCAACCGAAGTTTTCACTCCAGTTGTCCCCACAGTAGACACATATGATGGCCGAGGT
GATAGTGTGGTTTATGGACTGAGGTCAAAATCTAAGAAGTTTCGCAGACCTGACATCCAGTACCCTGATGCTACA
GACGAGGACATCACCTCACACATGGAAAGCGAGGAGTTGAATGGTGCATACAAGGCCATCCCCGTTGCCAGGAC
CTGAACGCGCCTTCTGATTGGGACAGCCGTGGGAAGGACAGTTATGAAACGAGTCAGCTGGATGACCAGAGTGCT
GAAACCCACAGCCACAAGCAGTCCAGATTATATAAGCGGAAAGCCAAATGATGAGAGCAATGAGCATTCCGATGTG
ATTGATAGTCAGGAACTTTCCAAAGTCAGCCGTGAATTCCACAGCCATGAATTTACAGCCATGAAGATATGCTG
GTTGTAGACCCCAAAAGTAAGGAAGAAGATAAACACCTGAAATTTCTGATTTCTCATGAATTAGATAGTGCATCT
TCTGAGGTCAATTAAAGGAGAAAAAATAAATTTCTCACTTTGCATTTAGTCAAAGAAAAAATGCTTTATAGC
AAAATGAAAGAGAACATGAAATGCTTCTTTCTCAGTTTATTGGTTGAATGTGTATCTATTGAGTCTGGAAATAA
CTAATGTGTTTGATAATTAGTTTAGTTTGTGGCTTCATGGAACTCCCTGTAAACTAAAAGCTTCAGGGTTATGT
CTATGTTCAATCTATAGAAGAAATGCAAACTATCACTGTATTTTAAATATTGTTATTCTCTCATGAATAGAAATT
TATGTAGAAGCAAAACAAATACTTTTACCCACTTAAAAAGAGAATATAACATTTTATGTCACTATAATCTTTGT
TTTTTAAGTTAGTGTATATTTTGTGTGATTATCTTTTGTGGTGTGAATAAATCTTTTATCTTGAATGTAATAA
GAATTTGGTGGTGTCAATTGCTTATTGTTTTCCACGGTTGTCCAGCAATTAATAAAACATAACCTTTTTTACT
GCCTAAAAA

1580/6881
FIGURE 1460

MRIAVICFCLLGITCAIPVKQADSGSSEEKQLYNKYPAVATWLNPDPSQKQNLAPQTLPSKSNESHDMDDMD
DEDDDDHVDSQDSIDSNDSDDVDDTDDSHQSDSHHSDESEDELVTDFPTDLPATEVFTPVVPTVDTYDGRGDSVV
YGLRSKSKKFRRPDIQYPDATDEDITSHMESEELNGAYKAIPVAQDLNAPSDWDSRGKDSYETSQLDDQSAETHS
HKQSRLYKRKANDESNEHSDVIDSQELSKVSREFHSHEFHSHEDMLVVDPKSKEEDKHLKFRISHELDSASSEVN

1581/6881
FIGURE 1461

CTCCAGCACAGCGTTGGTGCTGCCTGGGTATCAGAAAGCAAGCTCACATTGCTCTCCAGTACGTGTAAGCCTTTT
CTTTTCAAGATGCCTGAGGAAGTGCACCATGGAGAGGAGGTGGAGACTTTTGCCTTTTCAGGCAGAAATTGCC
CAACTCATATCCCTCATCATCAATACCTTCTATTCCAACGAGGAGATTTTCTTCAGGAGTTGATCTCTAATGCT
TCTGATGCCTTGGACAAGATTTCGCTATGAGAGCCTGACAGACCCTTCAAAGTTGGACAGTGGTAAAGAGCTGAAA
ATTGACATCATCCCCAACCTCAGGAACGTACCCTGGCTTTGGTAGACACAGGCATTGGCATGACCAAAGCTGAT
CTCATAAATAATTTGAGAACCATTGCCAAGTCTGGTACTAAAGCATGCATGGAGGCTCTTCAGGCTGGTGCAGAC
ATCTCCATGATTGGGCAGTTTGGTGTGGCTTTTTCTGCCTACCTGGTGGCAGAGAACTGGTTGTGATCACAA
AGCACACGATGATGAACAGTATGCTTGGGAGTCTTCTGCTGGAGGTTCTTCCTGCTGTCATGCTGATCATGGTG
AGCCCATTGGCAGGGGTACCAAAGTGATCCTCCATCTTAAAGAAGATCAGACAGAGTACTTAGAAGAGAGGCGGG
TCAAAGAAGTAGTGAAGAAGCATTCTCAGTTCATAGGCTATCCCATCACCTTTATTTGGAGAAGGAACAAGACA
AGGAAATTAGTGATGATGAGGCAGAAGAAGAGAAAGGTGAGAAAGAAGAGGATAAAGATGACGAAGAAAAGC
CCAAGATCAAAGATGTGGGTTTCAGATGAGGAGGATGACAGCAGTAAGGATAAGAAGAAGAAAAGTAAAGAAGATCA
AAGAGAAATACATTGACTAGGAAGAACTAAACAAGACCAAGCCTATTTGGACCAGAAACCATGATGACATCACCC
AAGAGGAGTATGGAGAATTCTATAAGAGCCTACCCAGTGACCTGGGAAGACCCTTGGCAGTCAAGCACTTTTCTG
TAGAAGGTCAGTTGGAATTCAGGGCATTGCTATTTCAGTCTCGTCGGGCTCCCTTTGACCTTTTTGAGAACAAGA
AGAAAAAGAACAACATCAAACCTGTATGTCGCGCTGTGTTCATCATGACAGCTGTGATGAGTTGATACAGAGT
ATCTCAATTTTATCCATGGTGTGGTTGACTCTGAGGATCTGCCCTGAACATCTCCCGAGAAATGCTCCAGCAGA
GCAAAATCTTGAAAGTCATTGCAAAAACATTGTTAAGAAGTGCCCTTGAGCTCTTCTCTGAGCTGGCAGAAGACA
AGGAGATTATAAGAATTTCTATGAGGCATTTTCTAAAAATCTCAAGCTTGGAATCCACGAAGACTCCACTAACCG
CCACCGCCTGTCTGAGCTGCTGCGCTGTACACCTCCAGTCTGGAGATGAGATGACATCTCTGTCTAGTATGT
TTCTCACATGAAGGAGACACAGAAGTCCACCTATTACATCACTGGTGAGAGCAAAGAGCAGGTGGCCAACTCTGC
TTTTGTGGAGCGAGTGCGGAAACAGGGCTTCGAGGTGGTATATGACTGAGCCCATTGACGAGTACTGTGTGCA
GCAGCTCAAGGAGTTTGATGGGAAAAGCCTGGTCTCAGTTACCAAGGAGGGTCTGGAGCTACCTGAGGATGAGGA
GGAGAAGAAGAAGATGGAAGAAAGCAAGGAAAAGTTTGAGAACCTCTGCAAGCTCATGAAAGAAATCTTAGATAA
GAAGGTTGAGAAGGTGACAACTCTCCAATAGACTTGTGTCTTACCCTGCTGCATTGTGACCAGCACCTACGGCTG
GACAGCCAATATGGAGCAGATCATGAAAGCCCAGGCATTTCGGGACAACTCCACCATGGGCTATATGATGGCCAA
AAAGCACCTGGAGATCAACCCCGACCAACCCATCATGGAGACGCTGCGGCAGAAGGCTGAGGCCGACAAGAATGA
TAAGGCAGTTAAGGACCTGGTGGTGCTGCTGTTTGAACCGCCCTGCTATCTTCGGGCTTTTCCCTTGAGGATCC
CCAGACCCACTCCAACCACATCTACCACATGATCAAGCTAGGTCTAGGTACTGATGAAGATGAAGTGGCAGCAGA
GGAACCCAGTGATGCAGTTCTGATGAGATCCCCCTCTTGAGGGTGATGAGGATGCGTCTCGCATGGAAGAAGT
CGATTAGGAGTTCTAGTTGGAAAACCTGTGCCCTTGATAGTGTCCCCATGGCTCCCACTGCAGCCTCGAGTGC
CCCTGTCCCACCTGGCTGCTGGTGTCTAGTGTTTTTTCCCTCTCCTGCTCTTGTGTTGAAGGCAGGAAACCAAG
GGTGTCAAGCCCCATTCCCTCTCTACTCTTGACAGCAGGATTGGATGTTGTGATTGTGGTTTATTTTATTTTCT
TCATTTTGTCTGAAATTAAAGAATGTAAATAAAGAATATGCCGTTTTTATAC

1582/6881
FIGURE 1462

MKETQKSTYYITGESKEQVANSASFVERVRKQGFVVYMTPEID EYCVQQLKEFDGKSLVSVTKEGLELPEDEEEK
KKMEESKEKFENLCKLMKEILDKKVEKVTISNRLVSSPCCIVTSTYGWTANMEQIMKAQALRDNSTMGYMMAKKH
LEINPDHPIMETLRQKAEADKNDKAVKDLVLLFETALLSSGFSLED PQTHSNHIYHMIKLG LGTDEDEVA AEEP
SDAVPDEIPPLEGDEDASRMEEVD

1583/6881
FIGURE 1463

CTCTCAAGTCACTCCAGCACAGCGTTGGTGCTGCCTGGGTATCAGAAAGCAAGCTCACATTGCTCTCCAGTACGT
GTAAGCCTTTTCTTTCAAGATGCCTGAGGAAGTGCACCATGGAGAGGAGGAGGTGGAGACTTTTGCCTTTCAGG
CAGAAATTGCCCAACTCATATCCCTCATCATCAATACCTTCTATTCCAACGAGGAGATTTTCCTTCAGGAGTTGA
TCTCTAATGCTTCTGATGCCTTGGACAAGATTGCTATGAGAGCCTGACAGACCCTTCAAAGTTGGACAGTGGTA
AAGAGCTGAAAATTGACATCTCCATGATTGGGCAGTTTGGTGTTGGCTTTTTTCTGCCTACCTGGTGGCAGAGAA
ACTGGTTGTGATCACAAAGCACAAACGATGATGAACAGTATGCTTGGGAGTCTTCTGCTGGAGGTTTCCTTCACTGT
GCATGCTGATCATGGTGAGCCCATTTGGCAGGGGTACCAAAGTGATCCTCCATCTTAAAGAAGATCAGACAGAGTA
CTTAGAAGAGAGGCGGGTCAAAGAAGTAGTGAAGAAGCATTCTCAGTTCATAGGCTATCCCATCACCCTTTATTT
GGAGAAGGAACAAGACAAGGAAATTAGTGATGATGAGGCAGAAGAAGAGAAAGGTGAGAAAGAAGAGGAAGATAA
AGATGACGAAGAAAAGCCCAAGATC

1584/6881
FIGURE 1464

GAGCAGCAGAATTTCAACTCCAGTAGACTTGAATATGCCTCTGGGCAAAGAAGCAGAGCTAACGAGGAAAGGGAT
TTAAAGAGTTTTTCTTGGGTGTTTGTCAAACCTTTATTCCCTGTCTGTGTGCAGAGGGGATTCAACTTCAATTTT
TCTGCAGTGGCTCTGGGTCCAGCCCCTTACTTAAAGATCTGGAAAGCATGAAGACTGGGCTTTTTTTCCTATGTC
TCTTGGGAAGTGCAGCTGCAATCCCGACAAATGCAAGATTATTATCTGATCATTCCAAACCAACTGCTGAAACGG
TAGCACCTGACAACACTGCAATCCCCAGTTTAAGGGCTGAAGCTGAAGAAAATGAAAAAGAAACAGCAGTATCCA
CAGAAGACGATTCCCACCATAAGGCTGAAAAATCATCAGTACTAAAGTCAAAGAGGAAAGCCATGAACAGTCAG
CAGAACAGGGCAAGAGTTCTAGCCAAGAGCTGGGATTGAAGGATCAAGAGGACACTGATGGTCACTTAAGTGTGA
ATTTGGAGTATGCACCAACTGAAGGTACATTGGACATAAAAGAAGATATGAGTGAGCCTCAGGAGAAAAAATCT
CAGAGAACACTGATTTTTTGGCTCCTGGTGTAGTTCTTCACAGATTCTAACCAACAAGAAAGTATCACAAAGA
GAGAGGAAAACCAAGAACAACCTAGAAATTATTCACATCATCAGTTGAACAGGAGCAGTAAACATAGCCAAGGCC
TAAGGGATCAAGGAAACCAAGAGCAGGATCCAAATATTTCCAATGGAGAAGAGGAAGAAGAAAAAGAGCCAGGTG
AAGTTGGTACCCACAATGATAACCAAGAAAGAAAGACAGAATTGCCCAGGGAGCATGCTAACAGCAAGCAGGAGG
AAGACAATACCCAATCTGATGATATTTTGAAGAGTCTGATCAACCAACTCAAGTAAGCAAGATGCAGGAGGATG
AATTTGATCAGGGTAACCAAGAACAAGAAGATAACTCCAATGCAGAAATGGAAGAGGAAAATGCATCGAACGTCA
ATAAGCACATTCAAGAACTGAATGGCAGAGTCAAGAGGGTAAAAGTGGCCTAGAAGCTATCAGCAACCAACAAAG
AGACAGAAGAAAAGACTGTTTCTGAGGCTCTGCTCATGGAACCTACTGATGATGGTAATACCACGCCAGAAATC
ATGGAGTTGATGATGATGGCGATGATGATGGCGATGATGGCGCACTGATGGCCCCAGGCACAGTGCAGAGTATG
ACTACTTCATCCCAAGCCAGGCCTTTCTGGAGGCCGAGAGAGCTCAATCCATTGCCTATCACCTCAAATTTGAGG
AGCAAAGAGAAAAAGTACATGAAAAATGAAAAATAGGTACCCTGAGCCTGGAGAGCACCAAGAGGCCAAGAAAG
CAGAGAACTCATCAAATGAGGAGGAAACGTCAAGTGAAGGCAACATGAGGGTGCATGCTGTGGATTCTTGCATGA
GCTTCCAGTGTAAGAGAGGCCACATCTGTAAGGCAGACCAACAGGGAAAACCTCACTGTGTCTGCCAGGATCCAG
TGACTTGTCTCTCAACAAAACCCCTTGATCAAGTTTGTGGCACTGACAATCAGACCTATGCTAGTTCTCTGTCTATC
TATTCGCTACTAAATGCAGACTGGAGGGGACCAAAAAGGGGCATCAACTCCAGCTGGATTATTTTGGAGCCTGCA
AATCTATTCTCTACTTGTACGGACTTTGAAGTGATTGAGTTTCTCTACGGATGAGAGACTGGCTCAAGAATATCC
TCATGCAGCTTTATGAAGCCAACCTCTGAACACGCTGGTTATCTAAATGAGAAGCAGAGAAATAAAGTCAAGAAAA
TTTACCTGGATGAAAAGAGGCTTTTGGCTGGGGACCATCCCATTGATCTTCTCTTAAGGGACTTTAAGAAAAACT
ACCACATGTATGTGTATCCTGTGCACTGGCAGTTTGTAGTGAAGTGAACCAACCCCTATGGATAGAGTCTTGACAC
ATTCTGAAGTTGCTCCTCTGCGAGCATCTCTGGTGCCCATGGAACACTGCATAACCCGTTTTCTTGAGGAGTGTG
ACCCCAACAAGGATAAGCACATCACCTGAAGGAGTGGGGCCACTGCTTTGGAATTAAAGAAGAGGACATAGATG
AAAATCTCTTGTGTTTTGAACGAAGATTTTAAAGAACTCAACTTTCCAGCATCCTCCTCTGTTCTAACCACTTCAGA
AATATATGCAGCTGTGATACTTGTAGATTATATTTAGCAAAATGTTAGCATGTATGACAAGACAATGAGAGTAA
TTGCTTGACAACAACCTATGCACCAGGTATTTAACATTAACTTTGGAAACAAAAATGTACAATTAAGTAAAGTCA
ACATATGCAAAATACTGTACATTGTGAACAGAAGTTTAAATCATAGTAATTTCACTCTCTGCATTGACTTATGAG
ATAATTAATGATTAACTATTAATGATAAAAAATAATGCATTTGTATTGTTTATAATATCATGTGCACTTCAAGAA
AATGGAATGCTACTCTTTTGTGGTTTACGTGTATTATTTTCAATATCTTAATACCCTAATAAAGAGTCCATAAAA
ATCC

1585/6881
FIGURE 1465

CTTCGCCGCGTGGATGGCCTATTACATCAATCACCCCTCTCTACACTCCCCCTACCTACGGAGCTCAGCAGGTGAA
ACTGGCGCTCGCCATCTTTGTGATCTGCCAGCTCGGCAACTTCTCCATCCACATGGCCCTGCGGGACCTGCGGCC
CGCTGGGTCCAAGACGCGGAAGATCCCATACCCCACCAAGAACCCCTTCACGTGGCTCTTCCTGCTGGTGTCTG
CCCCAACTACACCTACGAGGTGGGGTCCTGGATCGGTTTCGCCATCATGACGCAGTGTCTCCCAGTGGCCCTGTT
CTCCCTGGTGGGCTTCACCCAGATGACCATCTGGGCCAAGGGCAAGCACCGCAGCTACCTGAAGGAGTTCCGGGA
CTACCCGCCCCCTGCGCATGCCCATCATCCCCTTCCTGCTCTGAGCGCTCACCCCTGCTGAGGCTCAGCCCCTCAA
CCCGGTGGCATTCTGGGGGAGGAGTGGGGCCCACAGCTCTCCAGCACCCGGAATAAAGCCCGCCTGCCCCAGTCG
GGA

1586/6881
FIGURE 1466

GAGGGCGGGCCTGTTTCCGGGAGGCGCGTGGGGCTTGAGGCCGAGAACGGCCCTTGCTGCCACCAACATGGAGAC
TTTGTACCGTGTCCCGTTCTTAGTGCTCGAATGTCCCAACCTGAAGCTGAAGAAGCCGCCCTGGTTGCACATGCC
GTCGGCCATGACTGTGTATGCTCTGGTGGTGGTGTCTTACTTCCTCATCACCAGGAGGAATAATTTATGATGTTAT
TGTTGAACCTCCAAGTGTGCGTTCTATGACTGATGAACATGGGCATCAGAGGCCAGTAGCTTTCTTGGCCTACAG
AGTAAATGGACAATATATTATGGAAGGACTTGCATCCAGCTTCCTATTTACAATGGGAGGTTTAGGTTTCATAAT
CCTGGACCGATCGAATGCACCAAATATCCCAAACTCAATAGATTCTTCTTCTGTTTATTGGATTGCTCTGTGT
CCTATTGAGTTTTTTCATGGCTAGAGTATTCATGAGAATGAACTGCCGGGCTATCTGATGGGTAGAGTGCCTT
TGAGAAGAAATCAGTGGATACTGGATTTGCTCCTGTCAATGAAGTTTTAAAGGCTGTACCAATCCTCTAATATGA
AATGTGGAAGAAGATGAAGAGCAGCAGTAAAAGAAATATCTAGTGAAAAACAGGAAGCGTATTGAAGCTTGGAC
TAGAATTTCTTCTTGGTATTAAAGAGACAAGTTTATCACAGAATTTTTTTCCTGCTGGCCTATTGCTATACCAA
TGATGTTGAGTGGCATTTCCTTTTAGTTTTTCATTAAATATATCCATATCTACAATAATATCAAATAAA
GTGATTATTTTTTACAACCTCTTAACATTTTTTGGAGATGACATTTCTGATTTTCAGAAATTAACATAAAATCC
AGAAGCAAGATTCCGTAAGCTGAGAACTCTGGACAGTTGATCAGCTTTACCTATGGTGCTTTGCCTTTAACTAGA
GTGTGTGATGGTAGATTATTTAGATATGTATGTAAACTGTTTCCTGAACAATAAGATGTATGAACGGAGCAGA
AATAAATACTTTTTCTAATTGCAAAAAAAAAAAAAAAAAAAAAA

1587/6881

FIGURE 1467

METLYRVPFVLVECPNLKLLKPPWLHMPSAMTVYALVVVSYFLITGGIIYDVIVEPPSVGSMTDEHGHQRPVAFI
AYRVNGQYIMEGLASSFLFTMGGLGFIILDRSNAPNIPKLNRFLLFFIGFVCVLLSFFMARVFMRMKLPGYLMG

1588/6881
FIGURE 1468

ATGCCCCAACTCTCCGGAGGAGGTGGCGGGCGGGGGGGGACCCGGAACCTCTGCGCCACGGACGAGATGATCCCC
TTCAAGGACGAGGGCGATCCTCAGAAGGAAAAGATCTTCGCCGAGATCAGTCATCCCGAAGAGGAAGGCGATTTA
GCTGACATCAAGTCTTCCTTGGTGAACGAGTCTGAAATCATCCCGGCCAGCAACGGACACGAGGTGGCCAGACAA
GCACAAACCTCTCAGGAGCCCTACCACGACAAGGCCAGAGAACACCCCGATGACGGAAGCATCCAGATGGAGGC
CTCTACAACAAGGGACCCCTCCTACTCGAGTTATTCCGGGTACATAATGATGCCAAATATGAATAACGACCCATAC
ATGTCAAATGGATCTCTTTCTCCACCCATCCCGAGAACATCAAATAAAGTGCCCGTGGTGCAGCCATCCCATGCG
GTCCATCCTCTCACCCCCCTCATCACTTACAGTGACGAGCACTTTTCTCCAGGATCACACCCGTCACACATCCCA
TCAGATGTCAACTCCAAACAAGGCATGTCCAGACATCCTCCAGCTCCTGATATCCCTACTTTTTATCCCTTGTCT
CCGGGTGGTGTGGACAGATCACCCACCTCTTGGCTGGCAAGGTCAGCCTGTATATCCCATCACGGGTGGATT
AGGCAACCTTACCCATCCTCACTGTTCAGTCGACACTTCCATGTCCAGGTTTTCCCATCATATGATTCCCGGTCT
CCTGGTCCCCACAACTGGCATCCCTCATCCAGCTATTGTAACACCTCAGGTCAAACAGGAACATCCCCACACT
GACAGTGACCTAATGCACGTGAAGCCTCAGCATGAACAGAGAAAGGAGCAGGAGCCAAAAAGACCTCACATTAA
AAGCCTCTGAATGCTTTTATGTTATACATGAAAGAAATGAGAGCGAATGTCGTTGCTGAGTGACTCTAAAAGAA
AGTGCAGCTATCAACCAGATTCTTGGCAGAAGGTGGCATGCCCTCTCCCGTGAAGAGCAGGCTAAATATTATGAA
TTAGCACGGAAGAAAGACAGCTACATATGCAGCTTTATCCAGGCTGGTCTGCAAGAGACAATTATGGTAAGAAA
AAGAAGAGGAAGAGAGAGAACTACAGGAATCTGCATCAGGTACAGGTCCAAGAATGACAGCTGCCTACATCTGA

1589/6881
FIGURE 1469

TGGCCACAACACCGACACAGTAGCATTGTGCCCAGTTTCTGGTTGGAATGGTGACAACACGCTGGAGCCAAGTGC
TAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCGTAAGGATGGCAATGCCAGTGGAAACCACGCTGCTTGAGGC
TCTTGACTGCATCCTACCACCAACTCGTCCAAGTACAAGCCCTTGTGCCTGCCTCTCCAGGATGTCTACAAAAT
TGGTGGTATTGGTACTGTTCCCTGTTGGCTGAGTGGGAGACTGGTGTCTCAAACCTGGTATGGTGGTCACCTTTGC
TCCAGTCAACGTTGCAACAGAAGTAAAATCTGTTGAAATGCACCATGAAGCAGAAGGCTAAATAAATATTATCCC
TACTACCTGCCACCCCACTGTTAATCAGTGGTGGGAAGAATGGTCTCAGAACTGTTTGTTTCAATTGGCCATTGAA
GTTTAGTAGTAAAAGACTGGTTAATGATAACAATGCATCATAAACCTTCAGAAGGAAAGGAGAATGTTTGTGG
ACCACTTTGGTTTTCTTTCTTTGCATGTGGCAGTTTAAAGTTATTAGTTTTTAAAATCAGTACTTTTTACTGGAA
ACAACTTGACCAAAAATTTGTCACAGAATTTTGAGACCCATTAAAAAGTTAATGAAAAA

1590/6881
FIGURE 1470

AAGCCAGAACGAGAAAGGAAAAGACTCATATCAACACTGTGATCATCGGACACGTAGATTCTGGGCAAGTCCACCA
CTACTGGCCATCTGATCTACAAATGCGGTGGCGTCGACAAAAGAACCATCGAAAAATTTGAGAAGGAGGCTGCTG
AGATGGGAAAGTGCTCCTTCAAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACATGGTATCACCA
TTGATATCTCTTTGTGGAAATTTGAGACCAGCAAGTACTATGGGACAATGTGGGCTTCAATGTCAAGAATGTGTC
TGTC AAGGATGTTTCGTCTGGCAACGTTGCTGGTGACAGCAAAAAGGACCCACCAATGGAAGCAGCTGGCTTCAC
TGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAAGTGCTGGCTATGCCCCGTATTGGATTGCCACACGGC
TCACATTGCATGCAAGTTTGCTGAGCTGAAGGAAAAGACTGATCGCCATTCTGGTAAAAAGCTGGAAGATGGCCC
TAAATTCTTGAAGTCTGGTGATGCTGCCATTGTTGATATGGTTCCTGGCAAGCCCGTGTATGTTGAGAGCTTCTC
AGACTATCCACCTTTGGGTCGCTTTGCTGTTTCATGATATCAGACAGACAGTTGCGGTGGGTGTCATCAAAGCAGT
GGACAAGAAGGCTGCTGGAGCTGGCAAGGTCACCAAGTCTGCCAGAAAGCTCAGAAGGCTAAATAAATATTATC
CCTA

1591/6881
FIGURE 1471

AAATTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTGGCCACAACACCGACACAGTAGCATTGTGCCAGTTT
CTGGTTGGAATGGTGACAACACGCTGGAGCCAAGTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCGTA
AGGATGGCAATGCCAGTGGAACACGCTGCTTGAGGCTCTTGACTGCATCCTACCACCAACTCGTCCAACTGACA
AGCCCTTGTCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTACTGTTCTGTTGGCTGAGTGGAGA
CTGGTGTTCTCAAACCTGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTGCAACAGAAGTAAATCTGTTGAAA
TGCACCATGAAGCTTTGAGTGAAGTTCTTCCTGGGGACAATGTGGGCTTCAATGTCAAGAATGTGTCTGTCAAGG
ATGTTTCGTCGTGGCAACGTTGCTGGTGACAGCAAAAAGGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGG
TGATTATCCTGAACCATCCAGGCCAAATAAGTGCTGGCTATGCCCTGTATTGGATTGCCACACGGCTCACATTG
CATGCAAGTTTGCTGAGCTGAAGGAAAAGACTGATCGCCATTCTGGTAAAAAGCTGGAAGATGGCCCTAAATTCT
TCTTTGGGTCGCTTTGCTGTTTCATGATATCAGACAGACAGTTGCGGTGGG

1592/6881

FIGURE 1472

GTGAACATGGTATCACCATTGATATCTCTTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACTATCATTGATG
CCCCAGGACACAGAGACCTCATCAAAAACATGATTACAGGGACATCTCAGGCTGACTGTGCTGTCTTGATTGTTG
CTGCTGGTTTTTGGTGAATTTGAAGCTGGTATCTCCAAGAATGGGCAGACCCGAGAGCACGCCCTTCTGGCTTACA
CACTGGGTGTGAAACAACATAATTGTTGGTGTTAACAAAATGGATTCCACTGAGCCACCCTACAGCCATAAGAGAT
ATGAGGAAATTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTGGCCACAACACCGACACAGTAGCATTGTGC
CAGTTTCTGGTTGGAATGGTGACAACACGCTGGAGCCAAGTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCA
CCCGTAAGGATGGCAATGCCAGTGAACAGCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTACTG
TTCCTGTTGGCTGAGTGGAGACTGGTGTTCTCAAACCTGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTGCAA
CAGAAGTAAATCTGTTGAAATGCACCATGAAGCTTTGAGTGAAGTTCTTCTGGGGACAATGTGGGCTTCAATG
TCAAGAATGTGTCTGTCAAGGATGTTTCGTCTGGCAACGTTGCTGGTGACAGCAAAAAGGACCCACCAATGGAAG
CAGCTGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAA

1593/6881
FIGURE 1473

GAAAAATTTGAGAAGGAGGCTGCTGAGATGGGAAAGTGCTCCTTCAAGTATGCCTGGGTCTTGGATAAACTGAAA
GCTGAGCGTGAACATGGTATCACCATTGATATCTCTTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACTATC
ATTGATGCCCCAGGACACAGAGACCTCATCAAAAACATGATTACAGGGACATCTCAGGCTGACTGTGCTGTCTTG
ATTGTTGCTGCTGGTTTTTGGTGAATTTGAAGCTGGTATCTCCAAGAATGGGCAGACCCGAGAGCACGCCCTTCTG
GCTTACACACTGGGTGTGAAACAACATAATTGTTGGTGTTAACAAAATGGATTCCACTGAGCCACCCTACAGCCAT
AAGAGATATGAGGAAATTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTGGCCACAACACCGACACAGTAGCA
TTTGTGCCAGTTTCTGGTTGGAATGGTGACAACACGCTGGAGCCAAGTGCTAACATGCCTTGGTTCAAGGGATGG
AAAGTCACCCGTAAGGATGGCAATGCCAGTGGAACACGCTGCTTGAGGCTCTTGACTGCATCCTACCACCAACT
CGTCCAAC TGACAAGCCCTTGTGCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTACTGTTCTGTT
GGCTGAGTGGAGACTGGTGTCTCAAACCTGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTGCAACAGAAGTA
AAATCTGTGTCAAGGATGTTTCGTGCTGGCAACGTTGCTGGTGACAGCAAAAAGGACCCACCAATGGAAGCAGCTG
GCTTCACTGCTCAGGTGATTATCCTG

1594/6881

FIGURE 1474A

GGTGGTTTCGAGAAGCAGCAGTGAAGAGAAGCTACTGTGTTTGGTGC GGGAGCGAGCTGGCCACACCTGTGAGGC
TGCAGTGATTGTGATTCTCATCCTGGTGTGGGAAGGAATCCCGCTGTCTCTGGCTGACAACTCTACTCGGAGCT
TACCGAGACGCTGAGGAAATACGGCACGCTCACCAATCGCCGGTGTGCCTTGAATGAAGAGAGAAGCTTGGCCTG
TCAGGGGCTGGATCCAGAAACCTGTGGTGCCTCCTTCTCTTTTGGTTGTTTCATGGAGCATGTACTACAATGGATG
TAAGTTTGGCAGAAGCAAGATCCCAAGGAAGTTTAAGCTGCTTGGGGATGACCCAAAAGAGGAAGAGAACTGGA
GTCTCATTGCAAAACCTGTCCACTCTTATGGCACCAACATATAAGAACTTGCACCTGATGCATATAATAATCA
GATTGAATATGAACACAGAGCACCAGAGTGGCCTCTGGGTCTGAAGGAAGGCCGTCATTCTCAGGGGTCACTGC
ATGTTTGGACTTCTGTGCTCATGCCCACAGAGACTTGCACAACATGCAGAATGGCAGCACATTGGTATGCACTCT
CACTAGAGAAGACAATCGAGAATTTGGAGGAAAACCTGAGGATGAGCAGCTTCACGTTCTGCCTTTATACAAAGT
CTCTGACGTGGATGAGTTTGGGAGTGTGGAAGCTCAGGAGGAGAAAAACGGAGTGGTGGCATTTCAGTACTGAG
TTCTTTTCGGCGAAAAGTCAGGATGTTAGCAGAGCCAGTCAAGACTTGCCGACAAAGGAAACTAGAACCCAAGAA
AGCTGCAGCTGAAAAGCTTTCTCCCTGGAGAACAGCTCAAATAAAAAATGAAAAGGAAAAGTCAGCCCCATCAG
TACAAAACAACTGAAAACGCAAGCCAGGCTAAACAGTTGGCAGAACTTTTGGCAGTTTCAGGACCAGTCATGCA
GCAGTCCCAGCAGCCCCAGCCTCTACAGAAGCAGCCACCAGCCCCAGCAGCAGCAGACCCCCAGCAGCAGCA
GCCACATCACCTCAGACAGAGTCTGTCAACTCTTATTCTGCTTCTGGATCCACCAATCCATACATGAGACGGCC
CAATCCAGTTAGTCCTTATCCAACTCTTCACACACTTCAGATATCTATGGAAGCACCAGCCCTATGAACCTCTA
TTCCACCTCATCTCAAGCTGCAGGTTTCATATTTGAATTCCTTCTAATCCCATGAACCTTACCCTGGGCTTTTGAA
TCAGAATACCAATATCCATCATATCAATGCAATGGAACCTATCAGTGGACAACCTGCTCCCCATATCTGGGTTT
CTATTCTCCCCAGTCTCAGCCGATGGATCTGTATAGGTATCCAAGCCAAGACCCTCTGTCTAAGCTCAGTCTACC
ACCCATCCATACACTTTACCAGCCAAGGTTTGGAAATAGCCAGAGTTTACATCTAAATACTTAGGTTATGGAAA
CCAAAATATGCAGGGAGTGGTTTCAGCAGTTGTACCATTAGACCAAAATGTACATCATGTAGGGAAATTCGCTCC
TTATCCCACTCATGAGATGGATGGCCACTTCATGGGAGCCACCTCTAGATTACCACCCAATCTGAGCAATCCAAA
CATGGACTATAAAAATGGTGAACATCAATCACCTTCTCACAATAATCCATAACTACAGTGCAGCTCCGGGCATGTT
CAACAGCTCTCTTCATGCCCTGCATCTCCAAAACAGGAGAATGACATGCTTTCCACACAGCTAATGGGTTATC
AAAGATGCTTCCAGCTCTTAACCATGATAGAACTGCTTGTGTCCAAGGAGGCTTACACAAATTAAGTGATGCTAA
TGGTCAGGAAAAGCAGCCATTGGCACTAGTCCAGGGTGTGGCTTCTGGTGCAGAGGACAACGATGAGGTCTGGTC
AGACAGCGAGCAGAGCTTTCTGGATCCTGACATTGGGGGAGTGGCCGTGGCTCCAACCTCATGGGTCAATTCTCAT
TGAGTGTGCAAGCGTGAGCTGCATGCCACAACCCTTTAAAGAATCCCAATAGGAATCACCCACCAGGATCTC
CCTCGTCTTTTACCAGCATAAGAGCATGAATGAGCCAAAACATGGCTTGGCTCTTTGGGAAGCCAAAATGGCTGA
AAAAGCCCCTGAGAAAGAGGAAGAGTGTGAAAAGTATGGCCAGACTATGTGCTCAGAAATCCCATGGCAAAAA
AGTGAAACGGGAGCCTGCTGAGCCACATGAACTTCAGAGCCCACTTACCTGCGTTTCATCAAGTCTCTTGGCGA
AAGGACCATGTCCGTGACCACAGACTCCACAGTAACTACATCTCCATATGCCTTCACTCGGGTCACAGGGCCTTA
CAACAGATATATATGATATCACCCCTTTTGTGTGGTTACCTCACTTGAAAAGACCACAACCAACCTGTCAGTAGT
ATAGTTCTCATGACGTGGGCAGTGGGGAAAAGGTCAGATTTATGACAAATGTGGTGGGAAAACCTCAGCTCA
CCAGCAACAAAAGAGGTTATCTTACCATAGCACTTAATTTTCACTGGCTCCCAAGTGGTCACAGATGGCATCTAG
GAAAAGACCAAGCATTCTATGCAAAAAGAAGGTGGGGAAGAAAGTGTCCGCAATTTACATTTTAAACACTGG
TTCTATTATTGGACGAGATGATATGTAAATGTGATCCCCCCCCCGCTTACAACCTCTACACATCTGTGACCACT
TTTAATAATATCAAGTTTGCATAGTCATGGAACACAAATCAAACAAGTACTGTAGTATTACAGTGACAGGAATCT
TAAAATACCATCTGGTGTGTAATATATGATGTACTGAAATACTGGAATTATGGCTTTTGAATGCAGTTTATAC
TGTAATCTTAACTTTTATTTATCAAAATAGCTACAGGAAACATGAATAGCAGGAAAACACTGAATTTGTTTGGAT
GTTCTAAGAAATGGTGCTAAGAAAATGGTGTCTTTAATAGCTAAAAATTTAATGCCTTTATATCATCAAGATGCT
ATCAGTGTACTCCAGTGCCCTTGAATAATAGGGGTACCTTTTCACTCAAGTTTTTATCATAATTACCTATTCTTA
CACAAGCTTAGTTTTTAAATGTGGACATTTTAAAGGCCTCTGGATTTTGCTCATCCAGTGAAGTCCTTGTAGGA
CAATAAACGTATATATGTACATATATACACAAACATGTATATGTGCACACACATGTATATGTATAAATATTTAA
ATGGTGTTTTGAAGCACTTTGTCTACCTAAGCTTTGACAACCTTGAACAATGCTAAGGTACTGAGATGTTTAA
AACAAGTTTACTTTTCAATTTTAGAATGCAAGTTGATTTTTTAAAGGAAAACAAAGAAAGCTTTTAAATATTTTG
CTTTTAGCCATGCATCTGCTGATGAGCAATTGIGTCCATTTTTAACACAGCCAGTTAAATCCACCATGGGGCTTA
CTGGATTCAAGGGAATACGTTAGTCCACAAAACATGTTTTCTGGTGTCTCATCTCACATGCTATACTGTAAACAG

1595/6881
FIGURE 1474B

TTTTATACAAAATTGTATGACAAGTTCATTGCTCAAAAATGTACAGTTTTTAAGAATTTTCTATTAACTGCAGGTA
ATAATTAGCTGCATGCTGCAGACTCAACAAAGCTAGTTCAGTGAAGCCTATGCTATTTTATGGATCATAGGCTCT
TCAGAGAAGTGAATGGCAGTCTGCCTTTTGTTGATAATTATGTACATTGTGACGTTGTCATTTCTTAGCTTAAG
TGTCCTCTTTAACAAGAGGATTGAGCAGACTGATGCCTGCATAAGATGAATAAACAGGGTTAGTCCATGTGAAT
CTGTCAGTTAAAAAGAAACAAAACAGGCAGCTGGTTTGCTGTGGTGGTTTTAAATCATTAAATTGTATAAAGAA
GTGAAAGAGTTGTATAGTAAATTAAATTGTAAACAAAACTTTTTAATGCAATGCTTTAGTATTTAGTACTGTA
AAAAAATTAAATATATACATATATATATATATATATATATATATATATATAGTGTGAAGCAGAATTCACATCAT
GATGGTGCTACTCAGCCTGCTACAAATATATCATAATGTGAGCTAAGAATTCATTAAATGTTTGAGTGATGTTCC
TACTTGTATATACCTCAACACTAGTTTGGAATAGGATATTGAAGTGAAGAGTGAAGCATTGTGTACCATCATT
TTTTTCCAAGTCCTTTTTTTTATTGTTAAAAAAAAGCATACTTTTTTCAATACTTGATTTCTTAGCAAGTAT
AACTTGAAGTTCACCTTTTTTGTCTAAAAATTCAGGGATATTTCAGCTCATGCTCTCCCTATGCCAACATGTCA
CCTGTGTTTATGTAAATTTGTTAGGTTAAATAATATATCTTTGTGAGGATTTAACCTTTTATTTTGAATC
CCTTCTATTTTACTTGTACATGTGCTGATGTAACATAAACTAATTTTGTAAATCTGTTGGCTCTTTTTATTGTAA
AGAAAAGCATTTTAAAAGTTTGAGGAATCTTTTGACTGTTTCAAGCAGGAAAAAAAATTACATGAAAATAGAAT
GCACTGAGTTGATAAAGGAAAAAATTGTAAGGCAGGAGTTTGCAAGTGGCTGTTGGCCAGAGACTTACTTGTA
CTCTCTAAATGAAGTTTTTTTGATCCTGTAACTCACTGAAGGTACATACTCCATGTGGACTTCCCTTAAACAGGCA
AACACCTACAGGTATGGTGTGCAACAGATTGTACAATTACATTTTGGCCTAAATACATTTTTTGCTTACTAGTATT
TAAAAATAATCTTAAATCAGAGGAGGCTTTGGGTTTTATTGGTCAAATCTTTGTAAGCTGGCTTTTGTCTTTTT
AAAAAATTTCTTGAATTTGTGTTGTGTCCAATTTGCAACATTTCCAAAAATGTTTGTCTTTGCTTACAAACCAC
ATGATTTTAATGTTTTTTGTATACCATAATATCTAGCCCCAACATTTGATTACTACATGTGCATTGGTGATTTT
GATCATCCATTCTTAATATTGATTTCTGTGTACCTACTGTCAATTTGTTAACTGCTGGCCAACAAGAACAGGA
AGTATAGTTTGGGGGGTTGGGAGAGTTTACATAAGGAAGAGAAGAAATTGAGTGGCATATTGTAAATATCAGAT
CTATAATTGTAAATATAAAACCTGCCTCAGTTAGAATGAATGGAAGCAGATCTACAATTTGCTAATATAGGAAT
ATCAGGTTGACTATATAGCCATACTTGAAAAATGCTTCTGAGTGGTGTCAACTTTACTTGAATGAATTTTTCATCT
TGATTGACGCACAGTGATGTACAGTTCACCTCTGAAGCTAGTGGTTAACTTGTGTAGGAACTTTTGCAGTTTGA
CACTAAGATAAATCTGTGTGCAATTTTCTATGCTTTTTTAAAAACTAGTTTCATTTCAATTTTATGAGATGTTT
GGTTTATAAGATCTGAGGATGGTTATAAATCTGTAAGTATTGTAATGTTATGAATGCAGGTTATTTGAAAGCTG
TTTATTATTATATCATTCCTGATAATGCTATGTGAGTGTTTTAAATAAAATTTATATTTATTTAATGCACTCT

1596/6881

FIGURE 1475

MAPTYKKLAPDAYNNQIEYEHRAPECRLGLKEGRPFSGVTACLDCAHAHRDLHNMQNGSTLVCTLTREDNREFG
GKPEDEQLHVLPLYKVSDVDEFGSVEAQEEKKRSGAIQVLSSFRKVRMLAEPVKTCRQRKLEAKKAAAEKLSSL
ENSSNKNEKEKSAPSRKQTENASQAKQLAELLRLSGPVMQQSQQPQLQKQPPQPQQQRPQQQQPQHPQTESV
NSYSASGSTNPYMRRPNPVSYPNSSHTSDIYGSTSPMNFYSTSSQAAGSYLNSSNPMNPYPGLLNQNTQYPSYQ
CNGNLSVDNCSPLYGSYSPQSQPMDLRYRPSQDPLSKLSLPPIHTLYQPRFGNSQSFTSKYLGYGNQNMQGDGFS
SCTIRPNVHHVGKLPPYPTHEMDGHFMGATSRLPPNLSNPNMDYKNGEHHSPSHIIHNYSAAPGMFNSSLHALHL
QNKENDMLSHTANGLSKMLPALNHDRTACVQGGHLKLSDANGQEKQPLALVQGVASGAEDNDEVWSDSEQSFLDP
DIGGVAVAPTHGSILIECAKRELHATTPLKNPNRNHPTRISLVFYQHKSMEPKHGLALWEAKMAEKAREKEEEEC
EKYGPDIYVPQKSHGKKVKREPAEPHETSEPTYLRFIKSLAERTMSVTTDSTVTTSPYAFTRVTGPNRYI

1597/6881
FIGURE 1476

AGGCACAGGCAGCCTGCATACACTCCTTTTCTGGTGTCAACATTATTTAAAAGCATGGGAAATAGTAATGAGAC
AGTGTCTTCTTCATTAGAACCTTAGGAGTCTACTAGATTTCTTCATCTCTATTGTGTATTAGTAGCCAACT
GTGCAAAAAACACGGTCTTGAGAAATGACAGCACAGTATCTTAGAGGGAAGGAAATGTAGGATGCCAGTGTGGG
GACAAATTTCTGATTGCCAGTGATTGTTGTGAGCATAACAATAATTTTCATGAACATTAAAGCCTCTATTGAGGGC
AGCTGCAGTTGTAAAGGAAAAAATGGTCTCTGAACATTTAAACTACACTGGTGTACATCATAATCAAACAAAG
TAAACAGAAAAAATTTAACTTTGCTAAAAAAGCAGAAGCACTTGATCTTTAGGAAGGCACGCAGTTGC
TTATTATGAATCATTCTTAGAGTCCGATGCATTTTCAAAGCCGGTTACAGTCATTACGAAGCACACCCTTGTGAG
GTAAGTGTATCATCACCTTGGTTTATAAATAAAAAAGCTGAGACGCCGAGCGATTAAAGTCACTCGCCTAAGGAG
AATGAGTCAACGTCAAGAGTCATAGTTGACCCGGCCTAAAGACTCCAGACCATCAGTCCAGGGCTTAGTCAGCGG
GGCCCGGAGTGGCTTCCCTGGCTGGCATCTGGACTTAGGCTATTTCCGTGCACGTAAGCGGAATATTGGAACG
GTTGCACAGAACTTCCAAATAATTTTTACCGCCACGCAAGATTTAGCCCTGAGGTCTTAATCTCAGGATTTGGGA
CAGTAAAAGCTGTCTCCCTCCCCCTCGTCCAGCCGGTGGCAAGCGGGTACTGCGGCGGTTCCGTCCGTCCCT
TTCGCAGAAATGGCAACGAATGACCACCAGCATTAGCTGAGCCAGGGGACGTGGGAGGGTTGATTGCCTAAACGA
CTCTGCATCGCCGCTCTTTTGAACCTAAGAGAAATGGTGGGAGATCAAAGAAAACTAAATAAACACACAGG
CAACTTGTCTTGGGACCTCAACTAAGCAATGAAGCCTTATTGTGTGTGCTGAGCCTGCAGTTCCCAACCTTCCG
GGGAAGATGGGAGGACAGGGCGACAAAGGGCACAGTAGGCTTGCCTGGCAGTAAGTGTGACCGCAGCTATCCAGG
CGGAAGAGCAGAGGACTGAAACCACCCTCCAGCAAGCGAGTGTCCGCGCGTTGAGAACCAGCGCACCTTACCCAT
CGGCCACGTGACCAGTCTCTTTTAAAAAATTTCTTACCTTAAAAAAGGTGGGGGAGAG
ACTCCACTTCCAGAGCCTCTCGTTACTCAGCAGCGAGTCTTGCAGTCTTGGCGAGGTGCCCGCAGGGCCAAACGGACA
TATCCGTCACGTGGCCAGAGCTGGCCAATCCGGTTTGAATCTCATTTTTTCTCTTACCCCCCTTCTGGAGC
GGTTGTGCGATCAGATCGATCTAAGATGGCGACTGTGCAACCGGAAACCACCCTACTCCTAATCCCCGACTAC
AGAAGAGGAGAAAAACGGAATCTAATCAGGAGTTGCTAACCCAGAACACTATATTAAACATCCCTACAGAACAG
ATGGGCACCTCTGGTTTTTAAAAATGATAAAAGCAAACTTGGCAAGCAAACTGCGGCTGATCTCCAAGTTTGA
TACTGTTGAAGACTTTTGGGCTCTGTACAACCATATCCAGTTGTCTAGTAATTTAATGCCTGGCTGTGACTACTC
ACTTTTTAAGGATGGTATTGAGCCTATGTGGGAAGATGAGAAAAACAAACGGGAGGACGATGGCTAATTACATT
GAACAAACAGCAGAGACGAAGTGACCTCGATCGCTTTTGGCTAGAGACACTTCTGTGCCTTATTGGAGAATCTTT
TGATGACTACAGTGATGATGTATGTGGCGCTGTTGTTAATGTTAGAGCTAAAGGTGATAAGATAGCAATATGGAC
TACTGAATGTGAAAACAGAGAAGCTGTACACATATAGGGAGGGTATACAAGGAAAGGTTAGGACTTCTCCAAA
GATAGTGATTGGTTATCAGTCCACGCAGACACAGCTACTAAGAGCGGCTCCACCCTAAAAATAGGTTTGTGT
TTAAGAAGACACCTTCTGAGTATTCTCATAGGAGACTGCGTCAAGCAATCGAGATTGAGGAGCTGAACCAAGCC
TCTTCAAAAAGCAGAGTGGACTGCATTTAAATTTGATTCCATCTTAATGTTACTCAGATATAAGAGAAGTCTCA
TTCGCTTTGTCTTGTACTTCTGTGTTTCAATTTTTTTTTTTTTTTTGGCTAGAGTTTCCACTATCCCAATCAAAG
AATTACAGTACACATCCCCAGAATCCATAAATGTGTTCCCTGGCCACTCTGTAATAGTTCAGTAGAATTACCATT
AATTACATACAGATTTTACCTATCCACAATAGTCAGAAAACACTTGGCATTCTATACTTTACAGGAAAAA
TTCTGTTGTTCCATTTTATGCAGAAGCATATTTGCTGGTTTGAAGATTATGATGCATACAGTTTCTAGCAAT
TTTCTTTGTTTCTTTTACAGCATTGTCTTTGCTGTACTCTTGTGATGGCTGCTAGATTTAATTTATTGTTT
CCCTACTTGATAATATTAGTGATTCTGATTTTCAATTTGTTTGTCTTTGTTTTTCTCATGTAACA
TTGGTGAAGGATCCAGGAATATGACACAAAGGTGGAATAAACATTAATTTGTGCATTCTTTGGTAATTTTTTT
GTTTTTTGTAACCTACAAAGCTTTGCTACAAATTTATGCATTTTCAATCAATCAGTGATCTATGTTTGTGTGATT
CCTAAACATAATGTGGATTATAAAAAATGTAACATCATAATTACATTCCTAACTAGAATTAGTATGTCTGTTTT
TGTATCTTTATGCTGATTTTAAACCTTTGTATTACTTAGGTTATTTTGTCTTGGTTAAAAATGGCTCAAGTAGA
AAAGCAGTCCCATTATTAAGACAGTGTAACAACTGTAAATAAAATGTGTACAGTGAATTGTCTTTTAGACA
ACTAGATTTGCTCTTTTATTTCTCCATCTTTATAGAAGGAATTTGTACTTCTTATTGCAAGGCAGTCTCTATATT
ATGTCTTCTTTTGTGGTGTCTTCCATGTGAACAGCATAAGTTGGAGCACTAGTTTGATTATTATGTTTATTACA
ATTTTAAATAAATTGAATAGGTAGTATCATATATATGGA

1598/6881
FIGURE 1477

AGCGGCACGCACCACAGCTCGAGCACC GCCCTTCCGGTTGGAGCCATTGCAAGCCCCCCCCACGCCCGCCCCC
TCGCTAGGCGCTCGCCACGCCCATGCCTCCGTCGCTGCGCGGCCACCCCGGATGTCAGCCCCCGCGCCGACCA
GAATCCGTGAACATGGCGAACGAGGTTATCAAGTGCAAGGCTGCAGTTGCTTGGGAGGCTGGAAAGCCTCTCTCC
ATAGAGGAGATAGAGGTGGCACCCTCAAAGGCTCATGAAGTTCGAATCAAGATCATTGCCACTCGCGTTTGCCAC
ACCGATGCCATACCCCTGAGTGGAGCTGATCCTGAGGGTTGTTTTCCAGTGATCTTGGGACATGAAGGTGCTGGA
ATTGTGGAAAGTGTGGTGAGGGAGTTACTAAGCTGAAGGCGGGTGACACTGTCATCCCACCTTTACATCCCACAG
TGTGGAGAAATGCAATTTTGTCTAAATCCTAAACTAACCTTTGCCAGAAGATAAGAGTCACTCAAGGGAAAGGA
TTAATGCCAGATGGTACCAGCAGATTTACTTGCAAAGGAAAGACAATTTTGCATTACATGGGAACCAGCACATTT
TCTGAATACACAGTTGTGGCTGATATCTCTGTTGCTAAATAGATCCTTTAGCACCTTTGGATAAAGTCTGCCTT
CTAGGTTGTGGCATTTC AACCGTTATGGTGCTGCTGTGAACACTGCCAAGTTGGAGCCTGGCTCTGTTTGTGCC
GTCTTTGGTCTGGGAGGAGTCGGATTGGCAGTTATCATGGGCTGTAAAGTGGCTGGTGTCTCCCGGATCATTGGT
GTGGACATCAATAAAGATAAATTTGCAAGGGCCAAAGAGTTTGGAGCCACTGAATGTATTAAACCTCAGGATTTT
AGTAAACCCATCCAGGAAGTGCTCATTGAGATGACCGATGGAGGAGTGGACTATTCTTTGAATGTATTGGTAAT
GTGAAGGTCATGAGAGCAGCACTTGAGGCATGTCACAAGGGCTGGGGCGTCAGCGTCGTGGTTGGAGTAGCTCT
TCAGGTGAAGAAATTTGCCACTCGTCCATTCCAGCTGGTAAACAGGTGCGACATGGAAAGGCAGCTGCCCTTTGGAGGA
TGGAAGAGTGTAGAAAGTGTCCCAAAGTTGGTGCTGAATATATGTCCAAAAGATAAAAAGTTGATGAATTTGTG
ACTCACAATCTGTCTTTTGATGAAATCAACAAAGCCTTTGAACTGATGCATTCTGGAAGAGCATTTCGAACCTGTT
GTAAAGATTTAATTCAAAAGAGAAAAATAATGTCCATCCTGTCTGTATGTGATAGGAGCAGCTTAACAGGCAGGG
AGAAGCGCTCCAACCTCACAGCCTCGTAGAGCTTCACAGCTACTCCAGAAAATAGGGTTATGTGTGTCATTTCAT
GAATCTCTATAATCAAGGACAAGGATAATTCAGTCATGAACCTGTTTTCTGGATGCTCCTCCACATAAATAATTG
CTAGTTTATTAAGGAATATTTTAACATAATAAAAGTAATTTCTACATTTGTGTGGAAATTGTCTTGTTTTATGCT
GTCATCATTGTCACGGTTTGTCTGCCATTATCTTCATTCTGCAAGGGAAAGGGAAAGGAAGCAGGGCAGTGGTG
GGTGTCTGAAACCTCAGAAACATAACGTTGAACCTTTTAAGGGTCTCAGTCCCCGTGATTAAAGAACAGATCCTA
GCCATCAGTGACAAAGTTAATCAGGACCCAAGTCTGCTTCTGTGATATTATCTTGAAGGGAGGTACTGTGCCTTG
TTCATACCTGTACCCCAAATTCCTAGGATGGCATCTGCCCTTCAGGGGGCACTAAAATGTATTATTGAAACAGCA
TTCTGGGCTTAAATAGGTGTATGTATGTGTTGGTTGTGACTGTACTATTTCTAGTATAGTGAACACTACATACTGAA
TATCCAAGTTCTCAGCACCTACTTTTGTCAAATCTTAACATTTTGCCACTTCGAGATCACATTGCCATTCTCTCC
CTCCAGAGGTAACAATTATCCACAATTTGATGTTTATCATTCCTGTGTTGTTGTACTTTTACTGTGTATAACCTA
AACCATCTACTCTTTAGTACTGTTTTATATATTTTTAAGCCTCATACTTGCTCATTCTACAGCTTTTTTCACTCA
TTATTGTATAATTATATCTGAAGCTCTCGTTCATTAAATTTTAGTCCGTGTGTAGCAGAATTCAATTACGGGAAC
CCATAATTTATCTGTTCTCCAGTTGAAGGCATGAAGTTGTTGCCAGTTTCTGTATTATAACACTGTAGTGGAA
TTCTTCTGCATTGGGCTCACTGCGTGTTACCTAAGACGTATCACAGAATAAACACATTTAGCCTTATAGACATTG
CCAAATTGCTCTTCAAAGTAAATGTGAGTTTTTGTGAATTACATGAGTATGGAATGGTGTTTTATTATGACTTTA
GTTTGCATTTTCTCAA

1599/6881
FIGURE 1478

CGCAGTTTGAATCGCGGTGCGACGAAGGAGTAGGTGGTGGGATCTCACCGTGGGTCCGATTAGCCTTTTCTCTGC
CTTGCTTGCTTGAGCTTCAGCGGAATTCGAAATGCTGGCGGTAAGGCTGGAAAGGACTCCGGAAAGGCCAAGAC
AAAGGCGGTTTCCCGCTCGCAGAGAGCCGGCTTGCACTTCCAGTGGGCCGTATTCATCGACACCTAAAAATCTAG
GACGACCAGTCATGGACGTGTGGGCGCGACTGCCGCTGTGTACAGCGCAGCCATCCTGGAGTACCTCACCGCAGA
GGTACTTGAACTGGCAGGAAATGCATCAAAAGACTTAAAGGTAAAGCGTATTACCCCTCGTCACTTGCAACTTGC
TATTCGTGGAGATGAAGAATTGGATTCTCTCATCAAGGCTACAATTGCTGGTGGTGGTGTCAATCCACACATCCA
CAAATCTCTGATTGGGAAGAAAGGACAACAGAAGACTGTCTAAAGGATGCCTGGATTCCCTTGTTATCTCAGGACT
CTAAATACTCTAACAGCTGTCCAGTGTGGTGATTCCAGTGGACTGTATCTCTGTGAAAAACACAATTTGCCTT
TTTGTAATTCTATTTGAGCAAGTTGGAAGTTTAATTAGCTTTCCAACCAACCAATTTCTGCATTGAGTCTTAA
CCATATTTAAGTGTTACTGTGGCTTCAAAGAAGCTATTGATTCTGAAGTAGTGGGTTTGTATTGAGTTGACTGTT
TTTAAAAAAGTGTGGATTCTAATTGTGATGCAGAAGTTATAGTAACAAACATTGGTTTTGTACAGACATTAT
TTCCACTCTGGTGGATAAGTTCAATAAAGGTCATATCCCAAACATAAA

1600/6881
FIGURE 1479

MAGGKAGKDSGKAKTKAVSRSQRAGLQFPVGRIHRHLKSRTTSHGRVGATAAVYSAAILEYLTAEVLELAGNASK
DLKVKRITPRHLQLAIRGDEELDSLKATIAGGGVIPHIHKSIGKKGQKTV

1601/6881
FIGURE 1480

AAGATGCTGAAAGGAAAGAAGGCCAAGGGAAAGAAGGTGGCTCCGGCCCCTGCTGTCGTGAAGAAGCAGGAGGCT
AAGAAAGTGGTGAATCCCCTGTTTGAGGAAAGGCCTAAGAATTTTGGCATTGGACAGGACATCCAGCCCCAAAGA
GACCTCACCCGCTTTTGIGAAATGGCCCCGCTATATCAGGTTGCAGCAGCAGAGAGCCATCCTCTATAAGCGGCTG
AAAGTGCCCTCCTGCGATTAAACAGTTACCCAGGCCCTGGACCGCCAAACAGCTACTCAGCTGCTTAAGCTGGCC
CACAAGTACAGACCAGAGACAAAGCAAGAGAAGAAGGCTGTTGGCCCAGGCCGAGAAGAAAGCTGCTGGCAAAGG
GGACGTCCCCACCAAGAGACCACCTGTCCTTTGAGCAGGAGCTGGCTGTCTTCTTGCCTGCCCTATGTCGTAAAA
TGGTGGTCCCTTAGTGCATTATCAAGAGGAAGGCAAGACTGGGACGTCTCGTCCACAGGAAGACCTGCACCACTG
TCGCCTTCACACAGGTGAACTCGGAAGACAAAGGCGCTTTGGCTAAGCTGGTGGGAAGCTATCAGGACCAATTACA
ATGACAGATACGATGAGATCTGCCGTCCTGGGGTGGCAACATCCTGGGTCCTAAGTCTGTGGCTCGCATTGCCA
AGCTCGAAAAGGCAAAGGCTAAAGAACTTGCCACTAAACTGGGTAAATGTGCACTGTTGAGTTTTCTGTACATA
AAAATAATTAAATAATACAAATTTTCCTTCAAAGAAAAAAAAAAAAAAAAAAAA

1602/6881
FIGURE 1481

MLKGKKAKGKKVAPAPAVVKKQEAKKVVNPLFEERPKNFGIGQDIQPKRDLTRFVKWPRYIRLQQQRAILYKRLK
VPPAINQFTQALDRQTATQLLKLAKYRPETKQEKKAVGPGREESCWQRGRPHQETTCPLSSWLSSCLPYVVKWW
SLSALSRGRQDWDVSSTGRPAPLSPSHR

1603/6881
FIGURE 1482

CCTCTCTCCGGTCCGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAAGGGCCGCGCCA
CGTGCAGCCTATTCGCTGCACTAACTGTGCCCCGATGCGTGCCCAAGGACAAGGCCATTAAGAAATTCGTCATTG
AAACATAGTGGAGGCCGCAGCAGTCAGGGACATTTCTGAAGCGAGCGTCTTCGATGCCTATGTGCTTCCCAAGCT
GTATGTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCG
CAAGGACCGAACACCCCCACCCCGATTTAGACCTGCGGGTGCTGCCCCACGTCCCCACCAAAGCCCATGTAAGG
AGCTGAGTTCTTAAAGACTGAAGACAGGCTATTCCTGGAGAAAAATAAAATGGAATTGTACTTA

1604/6881
FIGURE 1483

GAACCGCCATCTTCCAGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCACCCGATATATGTTCT
CTAGGCCTTTTAGAAAACATGGAGTTATTCCTTTGGCCACGTATATGCGAATCTATAAGAAAGGTGATATTGTAG
ACATCAAGGGAACGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAACTGGAAGAGTCTACA
ATGTTACCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATG
TGCGTATTGAGCACATTAAGCACTCTAAGAGCCGAGATAGCTTCTGAAACGTGTGAAGGAAAATGATCAGAAAA
AGAAAGAAGCCAAAGAGAAAGGTACCTGGGTTCAACTAAAGCGCCAGCCTGCTCCACCCAGAGCAGCACACTTTG
TGAGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCCTATGAATTCATGGCATAGGTGTTAAAAAAA
AAAAAATAAAGGACCTCTGGGCTACAA

1605/6881
FIGURE 1484

ATGAATTTTGAACCCTTATCCTTGAGCACTGATCAATTTTCTAAAGTTACTGGGGGTGTGGAAACAGTAAAGCTT
AAACTGACACAAGATGAAATAGAAAACCTTACATTGCCCTGTCTCCATTAAGGAACCTGAAGAAGCCAAATTGGCA
GAGAATGCTTGTACCCTGGCTGACCTGACAGAGGGTCAGGTTGGCAAGCTACTCATCCGCAAGTCTGGAAGGGTG
CAACTCCTCTTGGGCAAGGTGACTCTGGACGTGACCATGGGAACCTGCCTGCTCCTTCCCTGCAGGAGCTGGTGTCC
GTGGGCCTTGGAGACAGTAGGACAGGGGAGATGACAGTCCTGGGACACGTGAAGCACAACTTAGGAAGCAGCAG
CAGGGAGGAGTGGCTGTGACATCACAGCCTGTGACTCTACTGGTGCAACAAGCAGTAACCCCTCTGGGCACCTCT
AGCTCTCTCTCAGGGCCCTGGGGCCACACTGGTGAAGCAAGGCCCCCGAAGGCGAGTCCCATCCCCTTTCCACCC
CGAGAAAAGCACCTTTCCCCAAAGCCACAGCCCTGCCAGGGGTTCTATCTCCTCTCTCAGGCCAAATAA

1606/6881
FIGURE 1485

GGGAAGTGCTGTTGGAGCCGCTGTGGTTGCTGTCCGCGGAGTGGAAGCGCGTGCTTTTGTGTTGTGCCCTGGCCA
TGGCGCTGCAGCTCTCCCGGGAGCAGGGAATCACCTGCGCGGAGCGCCGAAATCGTGGCCGAGTTCTTCTCAT
TCGGCATCAACAGCATTTTATATCAGCGTGGCATATATCCATCTGAAACCTTTACTCGAGTGCAGAAATACGGAC
TCACCTTGCTTGTAAGTACTGATCTTGAGCTCATAAAATACCTAAATAATGTGGTGGAACTGAAAGATTGGT
TATACAAGTGTTTCAGTTCAGAACTGGTTGTAGTTATCTCAAATATTGAAAGTGGTGAGGTCCTGGAAAGATGGC
AGTTTGATATTGAGTGTGACAAGACTGCAAAAGATGACAGTGACCCAGAGAAAAGTCTCAGAAAGCTATCCAGG
ATGAAATCCGTTTCAGTGATCAGACAGATCACAGCTACGGTGACATTTCTGCCACTGTTGGAAGTTTCTTGTTCAT
TTGATCTGCTGATTTATACAGACAAAGATTTGGTTGTACCTGAAAAATGGGAAGAGTCGGGACCACAGTTTATTA
CCAATTCTGAGGAAGTCCGCCTTCGTTCAATTTACTACTACAATCCACAAAGTAAATAGCATGGTGGCCTACAAAA
TTCCTGTCAATGACTTGAGGATGACATGAGGAAAATAATGTAATTGTAATTTTGAAATGTGGTTTTCTGAAATCA
GGTCATCTATAGTTGATATGTTTTATTTTCATTGGTTAATTTTTACATGGAGAAAACCAAAATGATACTTACTGAA
CTGTGTGTAATTGTTCCTTTATTTTTTGGTACCTATTTGACTTACCATGGAGTTAACATCATGAATTTATTGCA
CATTGTTCAAAGGAACCAGGAGGTTTTTTGTCAACATTGTGATGTATATTCCTTTGAAGATAGTAACTGTAGA
TGGA AAAA CTTGTGCTATAAAGCTAGATGCTTTCCTAAATCAGATGTTTTGGTCAAGTAGTTTGACTCAGTATAG
GTAGGGAGATATTTAAGTATAAAATACAAAGGAAGTCTAAATATTCAGAACTTTTGTTAAGGTCCTGAAAGT
AACTCATAATCTATAAACAATGAAATATTGCTGTATAGCTCCTTTTGACCTTCATTTTCATGTATAGTTTTCCCTA
TTGAATCAGTTTCCAATTATTTGACTTTAATTTATGTAACCTGAACCTATGAAGCAATGGATATTTGTACTGTTT
AATGTTCTGTGATACAGAACTCTTAAAAATGTTTTTCATGTGTTTTATAAAATCAAGTTTTAAGTGAAAGTGAG
GAAATAAAGTTAAGTTTGTTTTAAAAA AAAAAAAAAAAAAAAAAA

1607/6881

FIGURE 1486

MALQLSREQGITLRGSAEIVAEFFSFGINSILYQGIYPSETFTRVQKYGLTLLVTTDLELIKYLNNVVEQLKDW
LYKCSVQKLVVISNIESGEVLERWQFDIECDKTAKDDSAPREKSQKAIQDEIRSVIRQITATVTFLPLEVSCS
FDLLIYTDKDLVPEKWEESGPQFITNSEEVRLRSFTTIIHKVNSMVAYKIPVND

1608/6881
FIGURE 1487

CTGGGATTACAGGTGTGAGCCATCTTGCTCATTTTAGTTTAACTTTTGAGTGGTTTGTGTCTCCTGATTGGACT
CCTACAAATACAGAATTGATGCTAGGAAGGGTACCAGGAGATAGATGCACACAGATGGGATTGGGAGTAGGTTT
GGTTATCCAAGGAGCAGTGCTGAGCTCCTTGCTAATGGGATATGGGATGCTGGTGATTTCAGGAAGTGACCTCA
CAATGACTCAAGCTACCACATACTGTTGATTGTGAAATGCCAGTTGAAGCATATGTCCTGCGAGCTTAGGGGTGC
TACAAGTTGACCACTGCAGCAGTAAAGATGACTCTGAAGAATGGCATGGGATGGATCCTTTCGAATGCACTTGAG
CAGCGGTCTCCAACCACAGGGCCACAGAGCTGGAGCTGGATCTACCATGAAAGACTTCTGAATCCAGGAAGAGAG
ACTGACTGGGCAACATGTTATTTCAGGTGGGACCATCCAGTTGCAGGAAAACAAGCTTAACATGCCCCACTGATTCT
ACATTATGCTCCTACCTCCCGGCAGCCTCTCCAGGCCCAGAACTTCTCCAGTCAGCCTCTACAGACCAAGCTCA
TGACTCACAATGGCCTATTTAGGCCCATACCCTACCTCACGGCAGTCTCCGCAGATGAGCCTACTGCCTCACAA
AGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTTTAGACCCAGCTCCTGCCTCCAGCCTTCTCTCTAG
GCCCTGAACTTTCTGAAGTCGACCTCACCAGGCCCAGCTCATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTG
CATCTTGGTGGCCCCCTCCAGGCCCAGCCTCTGCCTCCCGTCGGCCTCTACAGTCCCAACATCTGCCTCATAGCAG
ATTCTTGAGGCCCAGCATCTGCCTCACTGTGGACCCCCAGACCCAGATGGTGTCTCACTGTGGCATCCTCAGGC
AAAGCTCCTGCCTTTTCGGCAGCCTCTCCAGGCCCAGCTCCTCCTGCCTCCAGTGGCCTCTTTTCGGGCCAGCCCA
GCTCATGCCTCCAGCGGCCCTTCCAGGCCCGCTTTTGACTTTCGGTGGCCTCTGCAGGCCTCGACAAGGCCTG
GCCTCCTGCCTCCCGAA

1609/6881
FIGURE 1488

MLLPPGSLSRPRTFSSQPLQTKLMTHNGLFRPIPYLTAVSADPTASQPPQAQLHRYNGLFRPSSCLPAFSLGP
ELSEVDLTRPSSCFFAASPGPPLPPVGLYSPNICLIADS

1610/6881
FIGURE 1489

AGGGCCGGGGTGGGGCGCTGGCGTTTCCGTTGCTTGGATCAGTCTAGGTGCAGCTGCGGATCCTTCAGCGTCTGC
ATCTCGGCGTCGCCCCGCGTACCGTCGCCCCGCTCTCCGCCGCTCTCCCGGGGGTTCGGGGCACTTGGGTCCCAC
AGTCTGGTCCTGCTTCACCTTCCCCCTGACCTGAGTAGTCGCCCATGGCACAGGTTCTCAGAGGCACTGTGACTGAC
TTCCCTGGATTTGATGAGCGGGCTGATGCAGAACTCTTCGGAAGGCTATGAAAGGCTTGGGCACAGATGAGGAG
AGCATCCTGACTCTGTTGACATCCCGAAGTAATGCTCAGCGCCAGGAAATCTCTGCAGCTTTTAAGACTCTGTTT
GGCAGGGATCTTCTGGATGACCTGAAATCAGAACTAACTGGAAAATTTGAAAATTAATTGTGGCTCTGATGAAA
CCCTCTCGGCTTTATGATGCTTATGAACTGAAACATGCCTTGAAGGGAGCTGGAACAAATGAAAAAGTACTGACA
GAAATTATTGCTTCAAGGACACCTGAAGAAGTGAAGAGCCATCAAACAAGTTTATGAAGAAGAATATGGCTCAAGC
CTGGAAGATGACGTGGTGGGGGACACTTCAGGGTACTACCAGCGGATGTTGGTGGTTCTCCTTCAGGCTAACAGA
GACCCTGATGCTGGAATTGATGAAGCTCAAGTTGAACAAGATGCTCAGGCTTTATTTTCAGGCTGGAGAAGCTTAAA
TGGGGGACAGATGAAGAAAAGTTTATCACCATCTTTGGAACACGAAGTGTGTCTCATTGAGAAAGGTGTTTGAC
AAGTACATGACTATATCAGGATTTCAAATTGAGGAAACCATTGACCGCGAGACTTCTGGCAATTTAGAGCAACTA
CTCCTTGCTGTTGTGAAATCTATTGGAAGTATACCTGCCTACCTTGAGAGACCTCTATTATGCTATGAAGGGA
GCTGGGACAGATGATCATACCTCATCAGAGTCATGGTTTCCAGGAGTGAGATTGATCTGTTTAACATCAGGAAG
GAGTTTAGGAAGAATTTTGCCACCTCTCTTTATTCCATGATTAAGGGAGATACATCTGGGGACTATAAGAAAGCT
CTTCTGCTGCTCTGTGGAGAAGATGACTTAACGTGTCACGGGGAAGAGCTCCCTGCTGTGTGCCTGCACCACCCCA
CTGCCTTCCTTCAGCACCTTTAGCTGCATTGTGATGCCAGTGCTTAACACATTGCCTTATTCTACTAGCATGCT
CATGACCAACACATACACGTCATAGAAGAAAATAGTGGTGCTTCTTTCTGATCTCTAGTGGAGATCTCTTGACT
GCTGTAGTACTAAAGTGACTTAATGTTACTAAGTTTAAATGCCTGGCCATTTTCATTATATATATTTTTTAAG
AGGCTAGAGTGCTTTTAGCCTTTTTTAAAACTCCATTTATATTACATTTGTAACCATGATACTTTAATTAGAAG
CTTAGCCTTGAAATTGTGAAGTCTTGAAATGTTATTAGTGAAGTTCGCAACTAACTAAACCTGTAAATTTATG
ATGATTGTATTCAAAGATTAATGAAAATAAACATTTCTGTCCCCCTGAATTAT

1611/6881
FIGURE 1490

MAQVLRGTVTDFPGFDERADAETLRKAMKGLGTDEESILTLLTSRSNAQRQEISA AFKTLFGRDLLDDLKSELTG
KFEKLIVALMKPSRLYDAYELKHALKGAGTNEKVLTEIIASRTPEELRAIKQVYEEYGSSEDDVVGDTSGYYQ
RMLVVLLQANRDPDAGIDEAQVEQDAQALFQAGELKWGTDEEKFITIFGTRSVSHLRKVFDKYMTISGFQIEETI
DRETSGNLEQLLLAVVKSIRSIPAYLAETLYYAMKGAGTDDHTLIRVMVSRSEIDLFNIRKEFRKNFATSLYSMI
KGDTS GDYKALLLLCGEDD

1612/6881
FIGURE 1491

CATAACAAGCCAAACGCCAGACCGAGAGTGCCTCCGTGCGCGAGTGCCCGGTGTGTGCGCGCCGGCGAGAGCAGG
GGCCCCCGCGGCTCCCCGCGCGCGCGGCCGGAACCTCATGCAGCTCCGAGCGAGCGAGCGGCCAGCCAGCG
CCTCGGCCGAACCCCTCCGCAGCAGGCTGCCTGCTGTTCCCGGGGAGATCATGAAACGAGGTGCGCTTCCAGC
AGCAGTGAGGATTCTGACGACAATGGCAGCCTGTCACTACTTGGTCCCAGAATTCCCGATCCCAGCATAGGAGA
AGCTCCTGCTCCAGACATGAAGATCGAAAGCCTTCAGAGGTGTTTAGGACAGACCTGATCACTGCCATGAAGTTG
CATGACTCCTACCAGCTGAATCCGGATGAGTACTATGTGTGGCAGATCCCTGGAGACAGGAATGGGAGAAAGGG
GTCCAGGTGCCTGTGAGCCCCGGGGACCATCCCTCAGCCTGTGGCCAGGGTTGTGTCTGAAGAGAAATCCCTCATG
TTCATCAGGCCCCAAGAAGTACATCGTGTATCAGGCTCTGAGCCTCCCGAGTTGGGCTATGTGGACATCCGGACG
CTGGCTGACAGCGTGTGTGCTATGACCTCAATGACATGGATGCTGCATGGCTGGAACCTGACCAATGAAGAATTT
AAGGAGATGGGAATGCCTGAACCTAGATGAATACACCATGGAGAGGGTCCCTAGAGGAATTTGAGCAGCGATGCTAC
GACAATATGAATCATGCCATAGAGACTGAGGAAGGCCCTGGGGATCGAATATGATGAAGATGTTGTCTGTGATGTC
TGCCAGTCTCCTGATGGTGAGGACGGCAATGAGATGGTGTCTGTGACAAATGCAACATCTGTGTGACACAGGCC
TGTTATGGAATCCTCAAGGTACCAGAGGGCAGCTGGCTGTGCCGACATGTGCCCTGGGGGTTTCAGCCAAATGT
CTGCTGTGTCCGAAGAAGGGTGGAGCTATGAAGCCCACCCGTAGCGGAACCAAGTGGGTCCCGTTAGCTGTGCT
CTGTGGATCCCTGAGGTGAGCATTTGGCAGCCAGAGAAGATGGAGCCCATCACCAGGTGTACACATTCCCAGC
AGCCGGTGGGGCGCTAGTGTGACGCTCTGCAATGAGAAGTTGGGGCCTCTATACAGTGTCTGTGAAGAAGTGC
CGCACAGCCTTCCATGTGACCTGTGCTTTTGACCGGGGCTGGAGATGAAGACCATCTTAGCAGAGAATGATGAA
GTCAAGTTCAAGTCTATTGCCCAAAGCACAGCTCACATAGGAAACCCGAGGAGAGTCTTGGCAAGGGGGCTGCA
CAGGAGAATGGGGCCCTGAGTGTTCCTCCCGGAATCCGCTGGAGCCCTTGGCAGCCTTGAGCAGAACCAGGAG
GAGGCCACCGGGTGAGTGTCCGTAAGCAGAAGCTGCAGCAGTTGGAGGATGAGTTCTACACCTTCGTCAACCTG
CTGGATGTTGCCAGGGCTCTGCGGCTGCCTGAGGAAGTAGTGGATTTCCTGTACCAGTACTGGAAGTTGAAGAGG
AAGGTCAACTTCAACAAGCCCTGATCACCCAAAGAAAGATGAAGAGGACAATCTAGCCAAGCGGGAGCAGGAT
GTCTTATTTAGGAGGCTGCAGCTGTTACGCACCTGCGGCAGGACCTGGAGAGGGTAATGATTGACACTGACACC
TTATAGTGACTTAGAGAAGAAGATGCAAAGAGGCGAACGCTCGCCAGAGCAAGAAATGATAGCCAGTCATATAC
TCTCAGACCCTTGTACACACCACAGCATGAGGTGTGTGTTGTTAAAAATATTTATGGGCTGGTAAACTCATTGTA
CATATGTGCAAACTGCTACTGAGTGGGGAGCTTCTTTTGTGTTTTTTTTTTTTTTAAAAACATTTCCCATTAATC
TTTACTGTTTTGTAAAGATCAAAATGGGGTGTGTCTTCCCCACCCCATTCCTTCATTCTAGAGCTAGAGTGAATGA
GCCCCAAGAAAATGACCAAGGAGTTGACTCAGGCTGAGTTTACAGACTGATTTAGAAAACAGAACGGATTTCTAT
TTCTAATGGAGGGGGCCAGAGATGGGAAAATTTCTGTTCAGTCCGGGGAAACACACCTAGGTGCTGGTGTATGGG
CTTATGAAGGAAGCTAAGCACGGCTGCTCACTGGCCCCACTTTGTTTCTTGGGTAAATTCAGGGGAATTTCCCA
GTACTGTCTAGGAGCAGAGCAGGCAAGTGGGTGCTGATGTGTGTGATGAGCTGTATGTACATGCATATATCTG
TTACAGAAGATACTCCTGGCAGTGAGGTGCTAAGTCACTCACTGAGGCTGTGTGTGTGTGTGTGTGCGCGTGCC
CGTGTCCATCCATGTCTCTGTGTGTGTGCGGGTATGGGTGGGATTCTGGTGGACAGGGGTGTGATGAT
CTGTCTGAGGAGCCCCAGTCACTGCTCAGCACGCTACAGATGTGTTGTTGTGACACTGAGATTGCTGAATGTGCT
GGCTGTTGGGCTGCCGAGCCTCAGCTGCTGGCATTTCCTTCTGCTGTTTGTGCTTTTTGTGCTCCCCACTTTCC
ATCACCTCTGGAGTCCCCTCTGGACGTCCCTTCTGCTACAGGAATAATGAGGCGTGGGCTGCCTCCCGCTAGGG
CCTCCTGCTCCCTGTAGGTAGTTTCTGGCTGAGGCTTGCTAATTGGGGATGCTTCTTAGAGCATCTTCCACATCA
ACTCCCCTGGCTGCTGGCTACCGATTAAATTCATTAGTGTGAAAGAGGTGGGAGTGAGGTTTTCTGGCCTGAAGC
AGTCTGCACTGAAAGGTACCAAGTGGCCTGAAACAGTGTAGGGAAAGACCTGGGAAACACTGGACCAAAAAAGC
CTGATCTCATGGAGACCTGCATGGCCCTGTTAGAGATGGCGTAGAAGTGAAGTCTTAAAGGGAGCATTAGAGAT
CCTTTTAATACAGACTGAGTGCCAGCTTATTTGTGATGCCCTTCCCAGACCAGGTTAGGATTCTGGGAAGGC
CGCGGATTCCGGCCCTGGAAGAGGCAGGATCCTGGAGCAGTTTTGTGAGGCTTTTGTGCTCCCATACGCCCCCTG
GTGGTGAGTGTAAAGAAGACTTTGCCCTCTCACAACCTACATGTATGTGTGGCATTTTTGTAGAGATGAGAAAAGG
ATTGAGAAGGATAAACTGGAATCCTGGTAAGAAGCCTTTATGCCAGCCGACACCTGCTGTAATTGGGGTGCATG
AGCTATGGAGTCAGATAGTTGTTGGGAGGGGGAGGACAAGAAGTCTATTGTTGGACTGTGTTGTCTCACAATC
ACCACAAAATAAAAGTGTAGAAAATGCTTGTGGTGTACTAACTCTTTTCTGTACTTAAGTTACTCAGATTAAAT
GCACTTCTAATTCTAAACATTTTTTTTTGGAGTCATCACTGTGCTGTTTAAAGTAGAACAATGCCAACGATGTATG
AGAAACAGGGAATAAATCAGGATTTGTGTGTGT

1613/6881
FIGURE 1492

MKRGRLPSSSEDSDDNGSLSTTWSONSRSQHRRSSCSRHEDRKPSEVFRTDLITAMKLHDSYQLNPDEYYVLADP
WRQEWKGVQVPVSPGTIPQFVARVVSEKSLMFIRPKKYIVSSGSEPPELGYVDIRTLADSVCRYDLNDMDAAW
LELTNEEFKEMGMPELDEYTMERVLEEFQRCYDNMNHAIETEEGLGIEYDEDVVCDCQSPDGEDGNEMVFCDK
CNICVHQACYGILKVPEGSWLCRTCALGVQPKLLCPKKGAMKPTRSGTKWVHVSCALWIPEVVSIGSPEKMEPI
TKVSHIPSSRWALVCSLCNEKFGASIQSVKNCRTAFHVTCADFDRGLEMKTILAENDEVKFKSYCPKHSSHRKPE
ESLGKGAQENGAPCESPRNPLEPFASLEQNREEAHRVSVRKQKLOQLEDEFYTFVNLLDVARALRLPEEVVDFL
YQYWKLRKRVNFKPLITPKKDEEDNLAKREQDVLFRRLQLFTHLRQDLERVMIDDTL

1614/6881
FIGURE 1493

GTGAGTGTGTGTCGGTTCGCACGGCGTGTGTCTCCGGCCGCGGGTTCCGCCTCCTCCCCTGCCGCCGCTGCTCAG
GTGTAAGTCAATGTGAAGCAGCAGCTCCAGCCCCGGGATAAACATGGCGACGTCTCTGCATGAGGGACCCACGAA
CCAGCTGGATCTGCTCATTCCGGCCGTGGAAGCATCAGTTCACAGCAGTAATGCACACTGTACAGATAAGACAAT
TGAAGCTGCTGAAGCCCTGCTTCATATGGAATCTCCTACCTGCTTGAGGGATTCAAGAAGTCTGTGGAAGTGTT
TGTTCCCTCCTTGTGTATCAACTCCAGAATTCATCCATGCTGCTATGAGGCCAGATGTCATTACAGAACTGTAGT
GGAGGTGTCAACTGAAGAGTCTGAACCCATGGATACCTCTCCTATTCCAACATCACCAGATAGCCATGAACCAAT
GAAAAAGAAAAAAGTTGGCCGTAAACCAAAGACCCAGCAATCACCAAATTTCCAATGGGTCTCCTGAGTTAGGTAT
AAAGAAGAAACCAAGAGAAGGAAAAGGAAACACAACCTATTGTGGGAGTTTCTTTTAGATCTACTTCAAGATAA
AAATACTTGTCCCAGGTATATTAAATGGACTCAGAGAGAAAAAGGCATATTCAAGCTGGTGGATTCAAAGGCTGT
CTCTAAGCTTTGGGGAAAGCATAAGAACAACCCAGACATGAACATGAAACCATGGGACGAGCTTTGAGATACTA
CTACCAAAGGGGAATTCTTGCAAAGGTTGAAGGACAGAGGCTTGATATCAGTTCAGGATATGCCGAAAAACAT
AGTGGTCATAGATGATGACAAAAGTGAAACCTGTAATGAAGATTTAGCAGGAACACTGATGAAAAATCATTAGA
ACGAGTGTCACTGTCTGCAGAAAGTCTCCTGAAAGCAGCATCCTCTGTTTCGCAGTGGAAAAAATTCATCCCCTAT
AAACTGCTCCAGAGCAGAGAAGGGTGTAGCTAGAGTTGTGAATATCACTTCCCCTGGGCACGATGCTTCATCCAG
GTCTCCTACTACCACTGCATCTGTGTGTCAGCAACAGCAGCTCCAAGGACAGTTCGTGTGGCAATGCAGGTACCTGT
TGTAATGACATCATTGGGTCAGAAAATTTCACTGTGGCAGTTCAGTCAGTTAATGCAGGTGCACCATTAAATAAC
CAGCACTAGTCCAACAACAGCGACCTCTCCAAAGGTAGTCATTGACACAATCCCCTACTGTGATGCCAGCTTCTAC
TGAAAAATGGAGACAAAATCACCATGCAGCCTGCCAAAATTATTACCATCCCAGCTACACAGCTTGACAGTGTCA
ACTGCAGACAAAGTCAAATCTGACTGGATCAGGAAGCATTAAACATTGTTGGAACCCATTGGCTGTGAGAGCACT
TACCCCTGTTTCAATAGCCCATGGTACACCTGTAATGAGACTATCAATGCCTACTCAGCAGGCATCTGGCCAGAC
TCCTCCTCGAGTTATCAGTGCAGTCATAAAGGGGCCAGAGGTTAAATCGGAAGCAGTGGCAAAAAAGCAAGAACA
TGATGTGAAAACCTTTGCAGCTAGTAGAAGAAAAACCAGCAGATGGAAATAAGACAGTGACCCACGTAGTGGTTGT
CAGTGCSCCTTCAGCTATTGCCCTTCTGTAACTATGAAAACAGAAAGGACTAGTGACATGTGAGAAATAAAATAG
CAGCTCCACCATGGACTTCAGGCTGTTAGTGGCAGTACTGACATAAACATTTGCAAGGGAAGTCATCAAGAAAAAG
TCAAAGAAGACTTTAAAACATTTTAAATGTCATATACAAAACAATCAGACTTACTGGAAATAAATTACCTATCCC
ATGTTTTAGTGGGAAATGAACTACATATTGAGATGCTGACAGAAAACCTGCCTCTTACAGTAGGAAACAACCTGAAC
CCATCAATAAGAAAAAGGATCGAAAGGGACCAAGCAGCTCAGTACGATATCAAGTTACACTAAGACTTGGAACAC
TAACATTCTGTAAGAGGTTATATAGTTTTTCAGTGGGAGGGGTTGGGATGGGTAATCTCATTGTTACATATAGCAA
TTTTTGATGCATTTTATATGCATACCAGCAATTATTACTGTGTTTCGCACAGTTCCTCACTTAACTGGTGCTATGTG
AAGACTCTGCTAATATAGGTATTTTAGAATGTGAATTGAAGAATGGATCCCAAAAACCTCAGAAAGAGGATAGCA
AAAAAAGATCTAGTGCGATTTTATATATATATATATATATATATATACATATATATATATATATAGCTTAAG
CTGATTTAAAACAAAGGCCTTAGACTAATTTTCGATTTTCTTTCTTGAAATAAGCTAATGGCTTGTTGTGTAAA
GCTTTTTTATTAAAAGAAAAATTTTAAAAATCTTGTACCTAGCACAGTATTGTTATAGAATATACATGTAACATT
TTATATGGTAGTTTAAAGTCTGTGAGTTTCTTAATTGTGGACAAATTAACAGTTGGCTCTGGCCTTTTGCTGTAAAC
ATGCCCTGTGTCACTCACTTAGCCTTGGCATTGTGTGACAGACATACCATTTTCAGTTCTGCTGTCACTTGAAGTTT
AGGCTCAGCATGAATTTTTGGCAGGTAGCTCTAATACCTGGAGTTTTCTTTGTTTTTTTTTTCTTTTTTTTAGTTG
AAGTTTATGAGGGAAATACCAGTGTTTCAGTTTGAAGTATAATAGTTTGTATATTCAACATTTGAAGTATATTCT
ATTTTGTGTACTCTTGTTTCAAAGTGATTCAAGTAGGTTTTCTGAAATATAGAAATGAAATTTATCTTCTGTT
TTGGTCTCTGGTGATATTTTAAACAATATTTAAAAGTCAGTATAGAAGTGTTTTAGTTAGGAAGTGATAAAACAT
CTCTCTCTCCTTCCCACTACTGCATGAAGAAATTCTACTTCCATTATATTAATTTTG

1615/6881

FIGURE 1494

GCACGAGGGACTTCTGTTCCAGAGCAAAGGTCATTAGCCGCTTGAATCAGCCTTTTCCCCCACC CGGTCCCCA
ACTTTGTTTACCCGATAAGGAAGGTCAGCATTCAAAGTCAAGAAGCGCCATTTATCTTCCCGTGCGCTCTACAAA
TAGTTCCGTGAGAAAGATGGCCGGGAAGTCGATCCTGCTGGCTGCTGCTCTATTCTCTCGGCCTGTCAGCAAAG
TTATTTTGCTTTGCAAGTTGGAAAGGCAAGATTAATAACAAAGTTACGCCCCAGCAGTCACTGGGTCAACCAGA
GTTTGAGAGAGTATTTGCGGCACAACAAAAGTGTGTGGAGTTTTATCCTATATTCATAATTACATTGTGGATGGC
TGGGTGGTATTTCAACCAAGTTTTTGCTACTTGTCTGGGTCTGGTGTACATATATGGCCGTCACCTATACTTCTG
GGGATATTCAGAAGCTGCTAAAAACGGATCACCGGTTCCGACTGAGTCTGGGGATTTTGGCCTTGTTGACCCCT
CCTAGGTGCCCTGGGAATTGCAAACAGCTTTCTGGATGAATATCTGGACCTCAATATTGCCAAGAAAGTGAAGCG
GCAATTCTAACTTTTTCTCTCCCTTTAATGCTTGCAGAAGCTGTTCACCATGAAGGTAATATGGTATCATT
GTTAAATAAAAATAAAGTCTTTATTCTGTTAAAAA

1616/6881
FIGURE 1495

MAGNSILLAAVSILSACQQSYFALQVGKARLKYKVTTPPAVTGSPEFERVFRAQQNCVEFYPIFIITLWMAGWYFN
QVFATCLGLVYIYGRHLYFWGYSEAAKKRITGFRSLGILALLTLGALGIANSFLDEYLDLNIKKLRQF

1617/6881
FIGURE 1496

CGCCGAGCTCCAGCCGAAGGAGAAGGGGGGTAAGTAAGGAGGTCTCTGTACCATGGCTCGTACAAAGCAGACTGC
CCGCAAATCGACCGGTGGTAAAGCACCCAGGAAGCAACTGGCTACAAAAGCCGCTCGCAAGAGTGCGCCCTCTAC
TGGAGGGGTGAAGAAACCTCATCGTTACAGGCCTGGTACTGTGGCGCTCCGTGAAATTAGACGTTATCAGAAGTC
CACTGAACTTCTGGTTCGCAAACCTTCCCTTCCAGCGTCTGGTGGAGAAATTGCTCAGGACTTTAAAACAGATCT
GCGCTTCCAGAGCGCAGCTATCGGTGCTTTGCAGGAGGCAAGTGAGGCCTATCTGGTTGGCCTTTTGAAGACAC
CAACCTGTGTGCTATCCATGCCAAACGTGTAACAATTATGCCAAAAGACATCCAGCTAGCACACAGCATACGTGG
AGAACGTGCTTAAGAATCCACTATGATGGGAAACATTTTCATTCTCCCATGGGGTCAAAGGTACCTAAGTATATG
ATTGCGAGTGGA

1618/6881
FIGURE 1497

ATGAAGAAAGGAAAGCTCATCTCTGCCACATTTCTGGAAAGCGCTGTTCCCGGTGCTCACCTATTGTCTCGCAGG
CAGGTTTCTGAAAGGATGGAGGAAATCTGCAGGAAGCACATGTTTCTGCTTAATTCCTGCCAGCTTTTGGCTGTC
AGACCCCAAATCCTTCAGCCACTAGCCTGTTTCAGGGCCCTGGTTTGATAACCCTGCAATTGCAGAGTGGAGTGGG
AGGAGAAGCCTCATACCTTTGTTTTTCTGGTTCTTCCCAACACCCCTGGTGGCCTACTTGGGTGTCCACAAGCTC
TCTGTGGAAAATAGTGCATCTCATTTAGCAACAACCTCCACCTAGCACAAAGTTCTGAGCTATACTTAAACCAGTGG
GGAGAGAGTGTGGAATGATTAAGGCTTGCACTGCTGCAAGAAGAACCATTTTCTCTTCATGGTGCTGGAG
GCAGAGATTGAGGCTCTCAAGGAGGAGCTGCTCTTCATGAAGAAGAACCACGAAGAGGAAGTAAAAGGCCTACAA
GCCCAGAGTGCCAGCTCTGGTTTGACCCCTGGAGGAGCTGGACAAGTATTGGTCTCAGCAGATTGAGGAGAGCGCC
ACAGTGGTCACCACGCAGCCTGCCAAGGTTGGAGCTGCTGAGATGATGCTCACAGAGCTGAGACATACAGTCCAG
TCTTTGGAGATCGACCTGGACTCCTTGAGAAATCTGAAGGCCAGCTTGGAGAACAGCCTGAATGGAGCAGCTCAA
CGGCATCCTGCTGCACCCGGAGTCAGAGCTGGCACAGACCCAGAGGGACAGTGCCAGGCCAGGAGTACGAGGCC
CTGCTGAACATCAAGGTCAAGCTGGAGGCTGAGATCACCACTACTGCCGCCTGCTGGAAGATGACGAGGACTTC
AATCTTGTGGATGGCAAAGTGGTGTCTGAGACCAATGATACCAAAGTTCTGAGACATTAA

1619/6881
FIGURE 1498

MKKGKLISATFLESAPGAHLLSRRQVSEEMEEICRKHMFLLNSCQLLAVRPQILQPLACSGPWFDNPAIAEWSG
RRSLIPLFFWFFPTPWPTWVSHKLSVENSASHLATTPPSTSELYLNQWGESVGMKACIRLCKKNHFLFMVLE
AEIEALKEELLFMKKNHEEEVKGLQAQSASSGLTLEELDKYWSQQIEESATVVTTPAKVGAAEMMLTELRTVQ
SLEIDLDSLRLNKASLENSLNGAAQRHPAAPGVRAGTDPEGQCQAQEYEALLNIKVKLEAEITTYCRLEDDDEF
NLVDGKVVSETNDTKVLRH

1620/6881
FIGURE 1499

AAAACACCAAATGGCGGATGACGCCGGTGCAGCGGGAGGGCCCGGAGGCCCTGGTGGCCCTGGGATGGGGAACCG
CGGTGGCTTCCGCGGAGGTTTCGGCAGTGGCATCCGGGGCCGGGGTCGCGGAGGCAAGGCCGAGGATAAGGAGTG
GATGCCCCGTCACCAAGTTGGGCCGCTTGGTCAAGGACATGAAGATCAAGTCCCTGGAGGAGATCTATCTCTTCTC
TCTGCCCATTAAGGAATCAGAGATCATTGACTTTTTCTGGGGGCCTCTCTCAAGGATGAGGTTTTGAAGATTAT
GCCAGTGCAGAAGCAGACCCGTGCCGGCCAGCGCACGAGGTTCAAGGCATTTCGTTGCTATCGGGGACTACAATGG
CCACGTCGGTCTGGGTGTTAAGTGCTCCAAGGAGGTGGCCACCGCCATCTGTGGGGCCATCATCCTGGCCAAGCT
CTCCATTGTCCCGTGACAGAGGCTACTGGGGGAACAAGATCGGCAAGCCCCACACCGTCCCTTGCAAGGTGAC
AGGCCGCTGCGGCTCTGTGCTGGTGCACCTCATCCCTGCACCCAGGGGCACTGGCATCGTCTCCGCACCTGTGCC
TAAGAAGCTGCTCATGATGGCTGGTATCGATGACTGCTACACCCAGCCCAGGGCTGCACTGCCACCCTGGGCAA
CTTCGCCAAGGCCACCTTTGATGCCATTTCTAAGACCTACAGCTATCTGACCCCTGACCTCTGGAAAGAGACTGT
ATTTACCAAGTCTCCCTATCAGGACTTCACTGACCACCTAGTCAAGACCCACACCAGAGTCTCCATGCAGCGGAC
TCAGGCTCCAGCTGTGGCTACAACGTAGGGTTTTTATACAAGAAAAATAAAGTGAATTAAGCGTGTCAAAAAAA
AAAAAAAAAAAAAAAAAAAA

1621/6881
FIGURE 1500

TGAGAACACGCTGTGTGGCTGAAAAGTGAAGGCAAGAGCTGATTGGCCCTCTGTGCTCCCCCTCCGCAAGGGGATC
GTTTTCTCCAGAAGAGCTGGATATTCTTTGCCCCAGTTATGGCAGACAAGTTAACGAGAATTGCTATTGTCAACC
ATGACAAATGTAAACCTAAGAAATGTCGACAGGAATGCAAAAAGAGTTGTCCTGTAGTTTGAATGGGAAAATTAT
GCATAGAGGTTACACCCAGAGCAAAATAGCATGGATTTCGAAACTCTTTGTATTGGTTGTGGTATCTGTATTA
AGAAATGCCCTTTGGCGCCTTATCAATTGTCAATCTACCAAGCAACTTGGAAAAAGAAACCACACATCGATATT
GTGCCAATGCCTTCAAACCTTCACAGGTTGCCTATCCCTCGTCCAGGTGAAGTTTGGGATTAGTTGGAACATAATG
GTATTGGAAGTCAACTGCTTTAAAAATTTTAGCAGGAAAAACAAAGCCAAACCTTGGAAAGTACGATGATCCTC
CTGACTGGCAGGAGATTTTGACTTATTTCCTGGATCTGAATTACAAAATTACTTTACAAAGATTCTAGAAGATG
ACCTAAAAGCCATCATCAAACCTCAATATGTAGACCAGATTCTTAAGGCTGCAAAGGGGACAGTGGGATCTATTT
TGGACCGAAAAGATGAAACAAAGACACAGGCAATTGTATGTCAGCAGCTTGATTTAACCCACCTAAAAGAACGAA
ATGTTGAAGATCTTTCAGGAGGAGAGTTGCAGAGATTGCTTGTGCTGTCGTTTGCATACAGAAAGCTGATATTT
TCATGTTTGATGAGCCTTCTAGTTACCTAGATGTCAAGCAGCGTTTAAAGGCTGCTATTACTATACGATCTCTAA
TAAATCCAGATAGATATATCATTGTGGTGAACATGATCTAAGTGTATTAGACTATCTCTCCGACTTCATCTGCT
GTTTATATGGTGTACCAAGCGCCTATGGAGTTGTCACTATGCCTTTTAGTGTAAGAGAAGGCATAAACATTTT
TGGATGGCTATGTTCCAACAGAAAACCTTGAGATTGAGAGATGCATCACTTGTTTTTAAAGTGGCTGAGACAGCAA
ATGAAGAAGAAGTTAAAAAGATGTGTATGTATAAATATCCAGGAATGAAGAAAAAATGGGAGAATTTGAGCTAG
CAATTGTAGCTGGAGAGTTTACAGATTCTGAAATTATGGTGATGCTGGGGGAAAATGGAACGGGTAAACGCAT
TTATCAGAATGCTTGCTGGAAGACTTAAACCTGATGAAGGAGGAGAAGTACCAGTTCTAAATGTCAGTTATAAGC
CACAGAAAATTAGTCCCAATCAACTGGAAGTGTTCGCCAGTTACTACATGAAAAGATAAGAGATGCTTATACTC
ACCCACAATTTGTGACCGATGTAATGAAGCCTCTGCAAATTGAAAACATCATTGATCAAGAGGTGCAGACATTAT
CTGGTGGTGAACACAGCGAGTAGCTTTAGCCCTTTGCTTGGGCAAACCTGCTGATGCTCTATTTAATTGATGAAC
CATCTGCATATTTGGATTCTGAGCAAAGACTGATGGCAGCTCGAGTTGTCAAACGTTTTCATCTCCATGCAAAAA
AGACAGCCTTTGTTGTGAACATGACTTCATCATGGCCACCTATCTAGCGGATCGCGTCATCGTTTTTGATGGTG
TTCCATCTAAGAACACAGTTGCAAACAGTCTCTCAAACCTTTTGGCTGGCATGAATAAATTTTGTCTCAGCTTG
AAATTACATTGAGAAGAGATCCAAACAATATAGGCCACGAATAAACAACCTTAATTCAATTAAGGATGTAGAAC
AAAAGAAGAGTGGAACTACTTTTTCTTGATGATTAGACTGACTCTGAGAATATTGATAAGCCATTTATTAAAA
GGAGTATTTACTAGAAATTTTGTGCATATAAACTTGAAATCAGGATTTTATGCCCCACATACTCTGGAACCTGAA
GTATAATATACTTAATATAACATAAAAAGCCAGTTGGGTCTAAATTTAGTTGAAACACAGAAAATGCCACTTT
TCTGTTCTGAAGAGGCTCTTTTGTGCATAATATTCTAAATGAAGACATTTCAAGCTATACAAATTACTTCCAA
GTTTTTCATGATGTATGGGAAGATTTTCAGTAGGTGTATTATTTACCGGTACCAAAATGCTGACCAGTGTGCTCC
ATTTTTAAATCTTGAAAAGGGTTTTCTGTACTTACCTGGTTTGCCAAGTATGCCAGTGTAATGAAACTGCCCTTA
TTTTAAAAGCCAGTCAAAGATTCCACTGATTGACATTTGATAAATAAACATCAGGATTATGTTTATTGTTTGT
TCAGTCTTGCATATATTACCAGTATATGGTTTCCGAGGAAGATTATCTACTGCAAAACACCACTGTTGAAAA
ATAGGTATTTTTAAATGTTTTTAATCTTTTTTGGTGCTTTTAAACATGTTTAGCAAAAACCAATTCAGTTCCAT
TCCCCGAAAAAACCCCTAATTTACTCTGAACCTTTTTTGTTTTTTGATTCCATGAGGTTCTGTATTCAGTCAT
TCTCTAGGTAATGTCAATTTTGTACACATATATTTATATAATCACTGATTGAGATTAGGAAAAAGCATTCTTAA
AGAATATTTGCTTCCCTTAGAAGTACAGACTCGAAATCTTTAAAGATGGTGCCTAAGCATCTATGTATTTTTTT
AAGTTCCACAGATTTTTCTGTTGGGAGCCAGGATTATAAACCCTTCCCTAAAGGCAACATTAATGCAAAAGT
CCCCAGATGGCAATACAAAGTATCCCCTGGTACCACATATATTCATTTGTGAGTTTGGATATAGAGCACATTATC
TAAACCATTTTGTAGTTCCAAAAACCCATCTAAATTTCTTGAGTTTCTGAATTTTGAACAGGATTACCTGGAGCC
TGGAGCCACTTTAAGTTGTACTTCTGACTAACTGGAATTATGAGTGAGGAAGAGTGTCTTACTAAATAAATGACT
GGGGCAAGCAAAATTGAGGAGGAAATTAGAACTGTTTGACAACTTTAAGAGCTACTTGAAATAACAGAAGTCT
TGATTAATATGCAAAATATGGCTAGAAAGTATGGTTTAACTGGACCCTATTATGCCTTTTAAAAATAATTTAGT
AACCATAAATACATGTTGTAAAAAATTCAAATATACAGAATGGAATAAAAAAATGATCTCCCTTTATTACCCTC
CCAAAGTTTACCAGCGTTTGAATTTAATAATGTATATTCTTTTCATGCTTTTTTCTGTGCACTTACCTAAGTGTGA
ATATGTAAAGGGTTTTGTTTGTATACAAATGGGATTATACTAAAAATAAGTAATGCCTATTTTTTAAGGATAGGTTA
AATTTGTGAATGATCATTCAAATATATTGAATAAAAAAAGCAAAAGCTATTGTTATTTACTGATCCTG

1622/6881

FIGURE 1501

MADKLTRIAIVNHDCKPKKCRQECKKSCPVVVMGKLCIEVTPQSKIAWISETLCIGCGICIKKCPFGALSIVNL
PSNLEKETTHRYCANAFKLHRLPIPRPGEVLGLVGTNGIGKSTALKILAGKQKPNLGKYDDPPDWQEILTYFRGS
ELQNYFTKILEDDLKAI IKPQYVDQIPKAAKGTVGSI LDRKDETKTQAIVCQQLDLTHLKERNVEDLSGGELQRF
ACAVVCIQKADIFMFDEPSSYL DVKQRLKAAITIRSLINPDRIIIVVEHDL SVLDYLSDFICCLYGVP SAYGVVT
MPFSVREGINIFLDGYVPTENLRFRDASLVFKVAETANEEVKKMCMYKYPGMKKMGFEFELAI VAGEFTDSEIM
VMLGENGTGKTTFIRMLAGRLKPDEGGEVPVLNVSYKPQKISPKSTG SVRQLLHEKIRDAYTHPQFVTDVMKPLQ
IENIIDQEVQTL SGGELQ RVALALCLGKPADVYLIDEP SAYLDSEQLMAARVVKR FILHAKKTAFVVEHDFIMA
TYLADRVIVFDGVPSKNTVANSPTLLAGMNKFLSQLEITFRDPNNYRPRINKLNSIKDVEQKKS GNYFFLDD

1623/6881
FIGURE 1502

AGGAAATGAGGCTGAACCTTTGTAGTGCCCTCGCTAACCTTCAGACCAGTAAACCAGATGCTGTAGAGCAGACATG
TATATTGGAATCTACAGAAATTGCTTTGCTTAACAACATCCCATATCATGAAGGCTTTAAAATGGCAATGAGCAA
AGTTTTGTCTTCACTGACTCCAGAGAACTGTATCAGACCATGGATACTCACTGTCAGAATGAGATGAGCTCTGG
AACTGGACAGAGTAATACTGTACAGAACATCCTTGAACCTTTCTACGTGTTAGATGTGTCCGAAGGCTTCTCTGT
TCTGCCTGTTATTGCTGGCACACTTGGGCAGGTTAAACCATACAGTTCTGTGGAGAAAGACCAGCATCGTATTGC
TCTGGACCTCATATCTGAAGCCAATCACTTTCCCTAAAGAAACACTTGAGTTTTGGCTGAGACATGTGGAGGATGA
ATCTGCTATGTTACAAAGGCCAAAATCAGACAAGTTATGGAGCATAATTATATTGGATGTCATTGAGCCATCTGG
GCTCAITTCAGCAGGAAATAATGGAAAAAGCTGCAATATCCAGGTGTTTACTACAATCTGGAGGCAAGATCTTTCC
TCAGTATGTGCTGATGTTTTGGGTTGCTTGTGGAATCACAGACACTCCTAGAGGAGAATGCTGTTCAAGGAACAGA
ACGTACTCTTGGATTAAATATAGCACCTTTTATTAAACAGTTTCAGGTACCTATACGTGATTTTTTGGACCTATC
CTCATTGCCCTGTATACCTTTTAAGCAAGCCAGTGGAACTCTTAAGACTAGATTTAATGACTCCGTATTTGAACAC
CTCTAACAGAGAAGTAAAGGTATACGTTTGTAAATCTGGAAGACTGACTGCTATTCCATTTTGGTATCATATGTA
CCTTGATGAAGAGATTAGGTTGGATACTTCAAGTGAAGCCTCCCACTGGAAACAAGCTGCAGTTGTTTTAGATAA
TCCCATCCAGGTTGAAATGGGAGAGGAACCTTGACTCAGCATTACAGCATCACAAAAGCAATGTCAGCATCACAGT
AAAGCAATGAAGAGCAGTTTTTCCAATGAAAACCTGTGTAAATAGAGCATCAACAAGTACAAAATTCTTGTCTTAAT
TAGTGGGGGTATATAAAAATTCCTTGTAATGGTCAAATATTTTTTAAATTGACATTAATAAAGCATATTTTAA
AGATTCTAAATAAAAGGGTAGCATTATTATAGAAATACTGCTGCAGATTGCTTTCTGGAAAAGGATACATCACT
AGTTTTTTAAATTAGGAACTTCTTTTGCTCGATTTTACAGAATAGGGATTTTAAAGTCTTATCGTTATTGACA
TGTGTAAGTAAAGCAAACTTTACTTTTGTAGGCATCTTGGCCTTTTTCTTAAATCCAACTTGTAATTGGGAA
ACACTGAAAGGCTTCCACTGAAGACTGAGGGTTATGGTTACCTGTAAATCCAATCTTGCTTCCTTTAAATACTC
ACTGTACATCTGAAACATCTCAGGTTTTGTTTTGAGAATGCAAGCTTGAAAAGAATTTAAGCTATAAGCTAAAT
GTAATTAACAGTAAAGGAGTTAGGGAATACATCTTCAGGAGGCAGCATTTTCTTGGTCTACTTTGGCAAAAG
AACATTTAAAGCTGGTAACAAAACAAAGTTAAATTGAAGGAAGACTTAATCCTATACTATTTTCAAAGTTTTG
ATTTGGATGTACAATAAGTACATTAATTGATCCAATTTTACAACTTTTGAAATAAAGGAAGATCATTATTATG
CCTCCT

1624/6881
FIGURE 1503

MAMSKVLSSLTPEKLYQTMTHCQNMSSGTGQSNIVQNILEPFYVLDVSEGFSVLPVIAGTLGQVKPYSSVEKD
QHRIALDLISEANHFPKETLEFWLRHVEDESAMLQRPKSDKLWSIIILDVIEPSGLIQQEIMEKAAISRCLLQSG
GKIFPQYVLMFGLLVESQTLLEENAVQGTERTLGINIAPFINQFQVP IRVFLDLSSLPCIPLSKPVELLRDLMT
PYLNTSNREVKVYVCKSGRLTAIPFWYHMYLDEEIRLDTSEASHWKQAAVVDNPIQVEMGEELVLSIQHHKSN
VSITVKQ

FIGURE 1504

[illegible]

1626/6881

FIGURE 1505

MIAAQAKLVYQLNKYYTERCQARKAAIAKTIREVCKVVSVDVLKEVEVQEPRFISSLSEIDARYEGLEVISPTFEF
VVLYLNQMGVFNFVDDGSLPGCAVLKLSGGRKRSMSLWVEFITASGYLSARKIRS RFQTLVAQAVDKCSYRDVVK
MIADTSEVKLRIRERYVVQITPAFKCTGIWPRSAQWPMFPHIPWPGPNRVAEVKAEGFNLLSKECYSLTGKQSSA
ESDAWVLQFGEAENRLLMGGCRNKCLSVLKTLDRLHLELPGQPLNNYHMKTL LLYECEKHPRETWDWDESCLDRL
NGILLQLISCLQCRRCPHYFLPNLDFQGKPHSALESAAKQTWRLAREILTNP KSLDKL

1627/6881
FIGURE 1506

CGCGACTCCCACTTCCGCCCTTTTGGCTCTCTGACCAGCACCAATGGCGGTTGGCAAGAACAAGCGCCTTACGAAA
GGCGGCAAAAAGGGAGCCAAGAAGAAAGTGGTTGATCCATTTCTAAGAAAGATTGGTATGATGTGAAAGCACCT
GCTATGTTCAATATAAGAAATATTGGAAAGACGCTCGTCACCAGGACCCAAGGAACCAAAATTGCATCTGATGGT
CTCAAGGGTCGTGTGTTTGAAGTGAGTCTTGCTGATTTGCAGAATGATGAAGTTGCATTTAGAAAATTCAAGCTG
ATTACTGAAGATGTTTCAAGGGTAAAACTGCCTGACTAACTTCCATGGCATGGATCTTACCCGTGACAAAATGTGT
TCCATGGTCAAAAAATGGCAGACAATGATTGAAGCTCACGTTGATGTCAAGACTACCGATGGTTACTTGCTTCGT
CTGTTCTGTGTTGGTTTTACTAAAAACGCAACAATCAGATACGGAAGACCTCTTATGCTCAGCACCAACAGGTC
CGCCAAATCCGGAAGAAGATGATGGAAATCATGACCCGAGAGGTGCAGACAAATGACTTGAAAGAAGTGGTCAAT
AAATTGATTCCAGACAGCATTGGAAAAGACATAGAAAAGGCTTGCCAATCTATTTATCCTCTCCATGATGTCTTC
GTTAGAAAAGTAAAAATGCTGAAGAAGCCCAAGTTTGAATTGGGAAAGCTCATGGAGCTTCATGGTGAAGGCAGT
AGTTCTGGAAAAGCCACTGGGGACGAGACAGGTGCTAAAGTTGAACGAGCTGATGGATATGAACCACCAGTCCAA
GAATCTGTTTAAAGTTCAGACTTCAAATAGTGGCAAATAAAAAAGTGCTATTTGTGATGGTTTGCTTCTGAAAAAA
AAAAAAAAAAAAAAAAAAAAA

1628/6881

FIGURE 1507

MAVGKNKRLTKGGKKGAKKKVVDPFSSKDWYDVKAPAMFNIRNIGKTLVTRTQGTKIASDGLKGRVFEVSLADLQ
NDEVAFRKFKLITEDVQGKNCLTNFHGMDLTRDKMCSMVKKWQTMIEAHVDVKTTDGYLLRLFCVGFTKKRNNQI
RKTSYAQHQQVRQIRKKMMEIMTREVQTNDLKEVVNKLIPDSIGKDIEKACQSIYPLHDVFVRKVKMLKKPKFEL
GKLMELHGEGSSSGKATGDETGAVERADGYEPPVQESV

1629/6881

FIGURE 1508

AAGTCTACATGAAAAGGATGGTTTTCTTGGAGCTTCCACAAACTTAAACCATGAAACATCTATTATTGCTACTAT
TGTGTGTTTTTCTAGTTAAGTCCCAAGGTGTCAACGACAATGAGGAGGGTTTCTTCAGTGCCCGTGGTCATCGAC
CCCTTGACAAGAAGAGAGAAGAGGCTCCAGCCTGAGGCCTGCCCCACCGCCCATCAGTGGAGGTGGCTATCGGG
CTCGTCCAGCCAAAGCAGCTGCCACTCAAAGAAGTAGAAAGAAAAGCCCTGATGCTGGAGGCTGTCTTCACG
CTGACCCAGACCTGGGGGTGTTGTGTCTTACAGGATGTCAAGAGGCTTTGCTACAAACAGGAAAGGCCAA
TCAGAAATAGTGTGATGAGTTAAATAACAATGTGGAAGCTGTTTTCCAGACCTCCTCTTCTTCTTTTTCAGTACA
TGTAATTTGCTGAAAGACCTGTGGCAAAGAGGCAGAAGCAAGTAAAGATAATGAAATGTAGTCAATGAGTACT
CCTCAGAACTGGAAAAGCACCAATTATATATAGATGAGACTGTGAATAGCAATATCGCAACTAACCTTCGTGTGC
TTCGTTCAATCCTAGAAAACCTGAGAAGCAAAATACAAAAGTTAGAATCTGATGTCTCAGCTCAAATGGAATATT
GTCGCACCCCATGCACTGTCAAGTTGCAATATTCCTGTGGTGTCTGGCAAAGAATGTGAGGAAATTATCAGGAAAG
GAGGTGAAACATCTGAAATGTATCTCATTCAACCTGACAGTTCTGTCAAACCGTATAGAGTATACTGTGACATGA
ATACAGAAAATGGAGGATGGACAGTGATTCAGAACCGTCAAGACGGTAGTGTTGACTTTGGCAGGAAATGGGATC
CATATAAACAGGGATTTGGAATGTTGTCAACCAACACAGATGGGAAGAATTACTGTGGCCTACCAGGTGAATATT
GGCTTGAAATGATAAAATTAGCCAGCTTACCAGGATGGGACCCACAGAACTTTTGATAGAAATGGAGGACTGGA
AAGGAGACAAAGTAAAGGCTCACTATGGAGGATTCAGTGACAGAATGAAGCCAACAAATACCAGATCTCAGTGA
ACAAATACAGAGGAACAGCCGGTAATGCCCTCATGGATGGAGCATCTCAGCTGATGGGAGAAAAACAGGACCATGA
CCATTCAACACGGCATGTTCTTCAGCACGTATGACAGAGACAATGACGGCTGGTTAACATCAGATCCCAGAAAAAC
AGTGTTCTAAAGAAGACGTTGGTGGATGGTGGTATAATAGATGTGATGCAGCCAATCCAAACGGCAGATACTACT
GGGTGGACAGTACACCTGGGACATGGCAAAGCATGGCACAGATGATGGTGTAGTATGGATGAATTGGAAGGGGT
CATGTGACTCAATGAGGAAGATGAGTATGAAGATCAGGCCCTTCTTCCCACAGCAATAGTCCCCCAATACGTAGAT
TTTTGTCTTCTGTATGTGACAACATTTTTGTACATTATGTTATTGGAATTTTCTTTCATACATTATATTCCTCT
AAAACCTCTCAAGCAGACGTGAGTGTGACTTTTTGAAAAAAGTATAGGATAAATTACATTAAATAGCACATGATT
TCTTTTGTGTTTTCTTCATTCTCTTGTCTCACCAGAAGTAACAAAAGTATAGTTTTGACAGAGTTGGTGTTCATA
ATTTCAGTTCTAGTTGATTGCGGAGAATTTTCAAATAAGGAAGAGGGGTCTTTTATCCTTGTGCTAGGAAAACCAT
GACGGAAGGAAAAACTGATGTTTAAAAGTCCACTTTTAAAACATATTTATTTATGTAGGATCTGTCAAAGAAA
ACTTCCAAAAAGATTTATTAATTAACCAGACTCTGTGTCAT

1630/6881

FIGURE 1509

MKRMVSWSFHKLKTMKHLLLLLLVCFLVKSQGVNDNEEGFFSARGHRPLDKKREEAPSLRPAPPPISGGGYRARP
AKAAATQKKVERKAPDAGGCLHADPDLGLVLCPTGCOLQEALLQQERPIRNSVDELNNNVEAVSQTSSSSFQYMYL
LKDLWQKRQKQVKDNENNVNEYSSLEKHQLYIDETVNSNIATNLRLVLSILENLRSKIQLKLESDVSAQMEYCRT
PCTVSCNIPVVSQKECEEIIRKGGGETSEMYLIQPDSSVKPYRVYCDMNTENGWTVIQNRQDGSVDFGRKWDPYK
QGFGNVATNTDGKNYCGLPGEYWLGNDKISQLTRMGPTELLIEMEDWKGDVKVAHYGGFTVQNEANKYQISVNKY
RGTAGNALMDGASQLMGENRTMTIHNGMFFSTYDRDNDGWLTS DPRKQCSKEDGGGWYNRCHAANPNGRYWG
QYTWDMAKHGTTDDGVVWMNWKGSWYSMRKMSMKIRPFFPQQ

1631/6881
FIGURE 1510

CTACATGAAAAGGATGGTTTCTTGGAGCTCCACAACTTAAAACCATGAAACATCTATTATTGCTACTATTGTG
TGTTTTCTAGTTAAGTCCCAAGGTGTCAACGACAATGAGGAGGTGAATTTTTTAAAGCATTATTATATTATTAG
TAGTATTATTAATATAAGATGTAACATAATCATATTATGTGCTTATTTTAATGAAATTAGCATTGCTTATAGTTA
TGAAATGGAATTGTTAACCTCTGACTTATTGTATTTAAAGAATGTTTCATAGTATTTCTTATATAAGATGGCTTA
GCTAATGTAAGATGTGTTTTCTCACTTGCTATTCTGAGTACTGTGATTTTCATTTACTTCTAGCAATACAGG

1632/6881
FIGURE 1511A

GTCTAGGAGCCAGCCCCACCCTTAGAAAAGATGTTTTCCATGAGGATCGTCTGCCTAGTTCTAAGTGTGGTGGGC
ACAGCATGGACTGCAGATAGTGGTGAAGGTGACTTTCTAGCTGAAGGAGGAGGCGTGCCTGGCCCAAGGGTTGTG
GAAAGACATCAATCTGCCTGCAAAGATTACAGCTGGCCCTTCTGCTCTGATGAAGACTGGAACACAAATGCCCT
TCTGGCTGCAGGATGAAAGGGTTGATTGATGAAGTCAATCAAGATTTACAAACAGAATAAATAAGCTCAAAAAT
TCACTATTTGAATATCAGAAGAACAATAAGGATTCTCATTGCTTGACCACTAATATAATGGAAATTTTGAGAGGC
GATTTTTTCCTCAGCCAATAACCGTGATAATACCTACAACCGAGTGTGAGAGGATCTGAGAAGCAGAATTGAAGTC
CTGAAGCGCAAAGTCATAGAAAAGTACAGCATATCCAGCTTCTGCAGAAAAATGTTAGAGCTCAGTTGGTTGAT
ATGAAACGACTGGAGGTGGACATTGATATTAAGATCCGATCTTGTGAGGGTTCATGCAGTAGGGCTTTAGCTCGT
GAAGTAGATCTGAAGGACTATGAAGATCAGCAGAAGCAACTTGAACAGGTCTTGCACAAAGACTTACTTCCCTCT
AGAGATAGGCAACACTTACCCTGATAAAAATGAAACAGTTCCAGACTTGGTTCCCGGAAATTTTAAGAGCCAG
CTTCAGAAGGTACCCCCAGAGTGGAAAGCATTAAACAGACATGCCGCAGATGAGAATGGAGTTAGAGAGACCTGGT
GGAAATGAGATTACTCGAGGAGGCTCCACCTCTTATGGAACCGGATCAGAGACGGAAGCCCCAGGAACCCCTAGC
AGTGCTGGAAGCTGGAACCTCTGGGAGCTCTGGACCTGGAAGTACTGGAACCTGGAACCTCTGGGAGCTCTGGAG
GGAGGGACTGCAACCTGGAACCTGGGAGCTCTGGACCTGGAAGTACTGGAAGCTGGAACCTCTGGGAGCTCTGGA
ACTGGAAGTACTGGAACCAAAACCCCTGGGAGCCCTAGACCTGGTAGTACCGGAACCTGGAATCCTGGCAGCTCT
GAACGCGGAAGTCTGGGCACTGGACCTCTGAGAGCTCTGTATCTGGTAGTACTGGACAATGGCACTCTGAATCT
GGAAGTTTTAGGCCAGATAGCCCAGGCTCTGGGAACGCGAGGCCTAACACCCAGACTGGGGCACATTTGAAGAG
GTGTCAGGAAATGTAAGTCCAGGGACAAGGAGAGAGTACCACACAGAAAACTGGTCACTTCTAAAGGAGATAAA
GAGCTCAGGACTGGTAAAGAGAAGGTCACCTCTGGTAGCACAACCACCACGCGTCGTTTCATGCTCTAAACCGGT
ACTAAGACTGTTATTGGTCCTGATGGTCACAAAGAAGTTACCAAGAAGTGGTGACCTCCGAAGATGGTTCTGAC
TGTCCCAGGCAATGGATTTAGGCACATTGTCTGGCATAGGTACTCTGGATGGGTTCCGCCATAGGCACCCCTGAT
GAAGCTGCCTTCTTCGACACTGCCTCAACTGGA AAAACATTCCAGGTTTCTTCTCACCTATGTTAGGAGAGTTT
GTCAGTGAGACTGAGTCTAGGGGCTCAGAATCTGGCATCTTCACAAATACAAAGGAATCCAGTTCTCATCACCCCT
GGGATAGCTGAATTCCTTCCCGTGGTAAATCTTCAAGTTACAGCAAAACAATTTACTAGTAGCAGCAGATTACAAC
AGAGGAGACTCCACATTTGAAAGCAAGAGCTATAAAATGGCAGATGAGGCCGGAAGTGAAGCCGATCATGAAGGA
ACACATAGCACCAAGAGAGGCCATGCTAAATCTCGCCCTGTGAGAGACTGTGATGATGTCTCTCAACACATCCT
TCAGGTACCCAAAGTGGCATTTCATATCAAGCTACCGGGATCCAGTAAGATTTTTCTGTTTATTGCGATCAA
GAGACCAGTTTGGGAGGATGGCTTTTGATCCAGCAAGAATGGATGGATCACTGAATTTTAACCGGACCTGGCAA
GACTACAAGAGAGGTTTCGGCAGCCTGAATGACGAGGGGGAAGGAGAATTCTGGCTAGGCAATGACTACCTCCAC
TTACTAACCCAAAGGGGCTCTGTTCTTAGGGTTGAATTAGAGGACTGGGCTGGGAATGAAGCTTATGCAGAAAT
CACTTCCGGGTAGGCTCTGAGGCTGAAGGCTATGCCCTCCAAGTCTCCTCTATGAAGGCACTGCGGGTGATGCT
CTGATTGAGGGTTCCGTAGAGGAAGGGGCAGAGTACACCTCTCACAAACATGCAGTTCAGCACCTTTGACAGG
GATGCAGACCAGTGGGAAGAGAAGTGTGCAGAAGTCTATGGGGGAGGCTGGTGGTATAATAACTGCCAAGCAGCC
AATCTCAATGGAATCTACTACCCTGGGGGCTCCTATGACCCAAGGAATAACAGTCCTTATGAGATTGAGAATGGA
GTGGTCTGGGTTTCTTTAGAGGGGCAGATTATTCCTCAGGGCTGTTTCGCATGAAAATTAGGCCCTTTGTGACC
CAATAGGCTGAAGAAGTGGGAATGGGAGCACTCTGTCTTCTTTGCTAGAGAAGTGGAGAGAAAAATACAAAAGGTA
AAGCAGTTGAGATTCTCTACAACCTAAAAAATTCCTAGGTGCTATTTTCTTATCCTTTGTACTGTAGCTAAATGT
ACCTGAGACATATTAGTCTTTGAAAAATAAAGTTATGTAAGGTTTTTTTTATCTTTAAATAGCTCTGTGGGTTTT
AACATTTTGTAAAGATATACCAAGGGCCATTTCAGTACATCAGGAAAGTGGCAGACAGAAGCTTCTCTCTGCAAC
CTTGAAGACTATTGGTTGAGAATCTCTCTCCCATACCCCAAAATCATAATGCCATTGGAAAGCAAAAAGTT
GTTTTATCCATTGATTGTAATTGTTTAAAGCCAATATTTAAGGTAAAACCTCACTGAATCTAACCATAGCTGAC
CTTTGTAGTAGAATTTACAACCTTATAATTACAATGCACAATTTATAATTACAATATGTTTATGTCTTTTGCTA
TGGAGCAAAATCCAGGAAGGCAAGAGAAACATTCTTTCCTAAATATAAATGAAAATCTATCCTTTAAACTCTTCCA
CTAGACGTTGTAATGCACACTTATTTTTTCCCAAGGAGTAACCAATTTCTTTCTAAAACACATTTAAATTTTA
AAACTATTTATGAATATTA AAAAAGACATAATTCACACATTAATAAACAATCTCCCAAGTATTGATTAACTTC
ATTTTTCTAATAATCATAAACTATATCTGTGACATGCTAATTATTATTAATGTAAGTCGTTAGTTCGAAAGCC
TCTCACTAAGTATGATCTATGCTATATTCAAAATTCACCCATTTACTTTGGTCAATATTTGATCTAAGTTGCAT
CTTTAATCCTGGTGGTCTTGCCTTCTGATTTTTAATTTGTATCCTTTTCTATTAAAGATATATTGTCAATTTTCTC

1633/6881

FIGURE 1511B

TTGAATATGTATTAAATATCCCAAGC

1634/6881
FIGURE 1512

MFSMRIVCLVLSVVGTAWTADSGEGDFLAEGGGVRGPRVVERHQSACKDSDWPFCSDEDWNYKCPSGCRMKGLID
EVNQDFTNRINKLKNLSFEYQKNNKDSHSLTTNIMEILRGDFSSANNRDNTYNRVSEDLRSRIEVLKRKVIEKVQ
HIQLLQKNVRAQLVDMKRLEVDIDIKIRSCRGSCSRALAREVDLKDIEDQKQLEQVIAKDLLPSRDRQHPLIK
MKPVVDLVPGNFKSQKQVPPKALTDMPQMRMELERPGGNEITRGGSTSYGTGSETESPRNPSSAGSWNSGSS
GPGSTGNRNPSSSGTGGTATWKPSSGPGSTGSWNSGSSGTSTGNQNPSPRPGSTGTWNPSSSERGSAGHWT
ESSVSGSTGQWHSESGSFRPDSPGSGNARPNPDWGTFFEEVSGNVSPGTRREYHTEKLVTSKGDKELRTGKEKVT
SGSTTTTRRSCSKTVTKTVIGPDGHKEVTKEVVTSEDGSDCPEAMD LGT LSGIGTLDGFRHRHPDEAAFFDTAST
GKTFPGFFSPMLGEFVSETESRGSESGIFTNTKESSSHHPGIAEFPSRGKSSSYSKQFTSSTS YNRGDSTFESKS
YKMADEAGSEADHEGTHSTKRGHAKSRPVDCDDVLQTHPSGTQSGIFNIKLPSSKIFSVYCDQETSLGGWLLI
QQRMDGSLNFNRTWQDYKRGFGSLNDEGEFEFWLGNDYLHLLTQRGSVLRVELEDWAGNEAYAEYHFRVGSEAE
YALQVSSYEGTAGDALIEGSVEEGA EY TSHNNMQFSTFDRDADQWEENCAEVYGGGWYNNCQAANLNGIYYPGG
SYDPRNNSPYEIEENG VVWVSFRGADYSLRAVRMKIRPLVTQ

1635/6881
FIGURE 1513

GTCTAGGAGCCAGCCCCACCCTTAGAAAAGATGTTTTCCATGAGGATCGTCTGCCTAGTTCTAAGTGTGGTGGGC
ACAGCATGGACTGCAGATAGTGGTGAAGGTGACTTTCTAGCTGAAGGAGGAGCGTGCGTGGCCCAAGGGTTGTG
GAAAGACATCAATCTGCCTGCAAAGATTTCAGACTGGCCCTTCTGCTCTGATGAAGACTGGAATAACAATGCCCT
TCTGGCTGCAGGATGAAAGGGTTGATTGATGAAGTCAATCAAGATTTACAAACAGAATAAATAAGCTCAAAAAT
TCACTATTTGAATATCAGAAGAACAATAAGGATTCTCATTCGTTGACCACTAATATAATGAAAATTTTGAGAGGC
GATTTTTCTCAGCCAATAACCGTGATAATACCTACAACCGAGTGTCAGAGGATCTGAGAAGCAGAATTGAAGTC
CTGAAGCGCAAAGTCATAGAAAAGTACAGCATATCCAGCTTCTGCAGAAAAATGTTAGAGCTCAGTTGGTTGAT
ATGAAACGACTGGAGGTGGACATTGATATTAAGATCCGATCTTGTCGAGGGTCATGCAGTAGGGCTTTAGCTCGT
GAAGTAGATCTGAAGGACTATGAAGATCAGCAGAAGCAACTTGAACAGGTCAATTGCCAAAGACTTACTTCCCTCT
AGAGATAGGCAACACTTACCACTGATAAAAATGAAACCAGTTCAGACTTGGTTCCCGGAAATTTTAAGAGCCAG
CTTCAGAAGGTACCCCAAGTGGGAAGGCATTAACAGACATGCCGCAGATGAGAATGGAGTTAGAGAGACCTGGT
GGAAATGAGATTACTCGAGGAGGCTCCACCTCTTATGGAACCGGATCAGAGACGGAAGCCCCAGGAACCCTAGC
AGTGCTGGAAGCTGGAACCTCTGGGAGCTCTGGACCTGGAAGTACTGGAACCGAAACCTGGGAGCTCTGGGACT
GGAGGGACTGCAACCTGGAAACCTGGGAGCTCTGGACCTGGAAGTACTGGAAGCTGGAACCTCTGGGAGCTCTGGA
ACTGGAAGTACTGGAACCAAAACCTGGGAGCCCTAGACCTGGTAGTACCGGAACCTGGAATCCTGGCAGCTCT
GAACGCGGAAGTGCTGGGCACTGGACCTCTGAGAGCTCTGTATCTGGTAGTACTGGACAATGGCACTCTGAATCT
GGAAGTTTTAGGCCAGATAGCCCAGGCTCTGGGAACGCGAGGCCTAACAACCCAGACTGGGGCACATTTGAAGAG
GTGTCAGGAAATGTAAGTCCAGGGACAAGGAGAGAGTACCACACAGAAAACTGGTCACTTCTAAAGGAGATAAA
GAGCTCAGGACTGGTAAAGAGAAGGTCACCTCTGGTAGCACAAACCACGCGTCGTTTCATGCTCTAAAACCGTT
ACTAAGACTGTTATTGGTCTGATGGTCACAAAGAAGTTACCAAGAAGTGGTGACCTCCGAAGATGGTTCTGAC
TGTCCCGAGGCAATGGATTTAGGCACATTGTCTGGCATAGGTACTCTGGATGGGTTCCGCCATAGGCACCCTGAT
GAAGCTGCCTTCTTCGACACTGCCTCAACTGGA AAAACATTCCAGGTTTCTTCTCACCTATGTTAGGAGAGTTT
GTCAGTGAGACTGAGTCTAGGGGCTCAGAATCTGGCATCTTCACAAATACAAAGGAATCCAGTTCTCATCACCCCT
GGGATAGCTGAATTCCCTTCCCGTGGTAAATCTTCAAGTTACAGCAAACAATTTACTAGTAGCACGAGTTACAAC
AGAGGAGACTCCACATTTGAAAGCAAGAGCTATAAAATGGCAGATGAGGCCGGAAGTGAAGCCGATCATGAAGGA
ACACATAGCACCAAGAGAGGCCATGCTAAATCTCGCCCTGTCAGAGGTATCCACACTTCTCCTTTGGGGAAGCCT
TCCCTGTCCCCCTAGACTAAGTTAAATATTTCTGCACAGTGTTCCTGCCCCCTTGCAATTCCTTCTTAACCTCT
CTGTTACACGTCATTGAAACTACACTTTTTTGGTCTGTTTTTGTGCTAGACTGTAAGTTCCTTGGGGGCAGGGCC
TTTGTCTGTCTCATCTCTGTATTCCCAAATGCCTAACAGTACAGAGCCATGACTCAATAAATACATGTTAAATGG
ATGAATG

1636/6881
FIGURE 1514

MF SMRIVCLVLSVVGTAWTADSGEGDFLAEGGGVRGPRVVERHQSACKDSDWPFCSDEDWNYKCPSGCRMKGLID
EVNQDFTNRINKLKNSLFQKNNKDSHSLTTNIMEILRGDFSSANNRDNTYNRVSEDLRSRIEVLKRKVIEKVQ
HIQLLQKNVRAQLVDMKRLEVDDIDIKIRSCRGSCSRALAREVDLKDYEDQQKQLEQVIAKDLLPSRDRQHPLIK
MKPVPDLVPGNFKSQQLQKVPPEWKALTDMPQMRMELERPGGNEITRGGSTSYGTGSETESPRNPSSAGSWNSGSS
GPGSTGNRNPGSSGTGGTATWKPGSSGPGSTGSWNSGSSGTGSGNQNPGSPRPGSTGTWNPSSERGSAGHWTS
ESSVSGSTGQWHSESGSFRPDSFGSGNARPNPDWGTFFEEVSGNVSPGTRREYHTEKLVTSKGDKELRGKEKVT
SGSTTTTTRRSCSKTVTKTVIGPDGHKEVTKEVVTSEDGSDCPEAMD LGT LSGIGTLDGFRHRHPDEAAFFDTAST
GKTFPGFFSPMLGEFVSETESRGSESGIFTNTKESSSHHPGIAEFFSRGKSSSYSKQFTSSTSYNRGDSTFESKS
YKMADEAGSEADHEGTHSTKRGHAKSRPVRGIHTSPLGKPSLSP

'1637/6881
FIGURE 1515

TGCTGACACTACAAGGCTCGGAGCTCCGGGCACTCAGACATCATGAGTTGGTCCTTGCACCCCCGGAATTTAATT
CTCTACTTCTATGCTCTTTTATTTCTCTCTTCAACATGTGTAGCATATGTTGCTACCAGAGACAACCTGCTGCATC
TTAGATGAAAGATTTCGGTAGTTATTGTCCAACCTACCTGTGGCATTGCAGATTTCTGTCTACTTATCAAACCAA
GTAGACAAGGATCTACAGTCTTTGGAAGACATCTTACATCAAGTTGAAAACAAAACATCAGAAGTCAAACAGCTG
ATAAAGCAATCCAACCTCACTTATAATCCTGATGAATCATCAAAACCAAATATGATAGACGCTGCTACTTTGAAG
TCCAGGATAATGTTAGAAGAAATTATGAAATATGAAGCATCGATTTTAACACATGACTCAAGTATTCGATATTG
CAGGAAATATATAATTCAAATAATCAAAGATTGTTAACCTGAAAGAGAAGGTAGCCCAGCTTGAAGCACAGTGC
CAGGAACCTTGCAAAGACACGGTGCAAATCCATGATATCACTGGGAAAGATTGTCAAGACATTGCCAATAAGGGA
GCTAAACAGAGCGGGCTTTACTTTATTAAACCTCTGAAAGCTAACCAGCAATTCTTAGTCTACTGTGAAATCGAT
GGGTCTGGAAATGGATGGACTGTGTTTCAGAAGAGACTTGATGGCAGTGTAGATTCAAGAAAACTGGATTCAA
TATAAAGAAGGATTTGGACATCTGTCTCCTACTGGCACAACAGAATTTTGGCTGGGAAATGAGAAGATTCATTG
ATAAGCACACAGTCTGCCATCCCATATGCATTAAGAGTGGAAGTGAAGACTGGAATGGCAGAACCACTACTGCA
GACTATGCCATGTTCAAGGTGGGACCTGAAGCTGACAAGTACCGCCTAACATATGCCTACTTCGCTGGTGGGGAT
GCTGGAGATGCCTTTTGATGGCTTTGATTTTGGCGATGATCCTAGTGACAAGTTTTTCACATCCCATAAATGGCATG
CAGTTCAGTACCTGGGACAAATGACAATGATAAGTTTGAAGGCAACTGTGCTGAACAGGATGGATCTGGTTGGTGG
ATGAACAAGTGTACGCTGGCCATCTCAATGGAGTTTATTACCAAGGTGGCACTTACTCAAAGCATCTACTCCT
AATGGTTATGATAATGGCATTATTTGGGCCACTTGGAACCCGGTGGTATTCCATGAAGAAAACCACTATGAAG
ATAATCCCATTTCAACAGACTCACAATTGGAGAAGGACAGCAACACCACCTGGGGGGAGCCAAACAGGCTGGAGAC
GTTTAAAGACCGTTTCAAAGAGATTTACTTTTTTAAAGGACTTTATCTGAACAGAGAGATATAATATTTTCC
TATTGGACAATGGACTTGCAAAGCTTCACCTTCAATTTAAGAGCAAAAGACCCCATGTGAAAACCTCCATAACAGT
TTTATGCTGATGATAATTTATCTACATGCATTTCAATAAACCTTTTGTTCCTAAGACT

1638/6881
FIGURE 1516

MSWSLHPRNLILYFYALLFLSSTCVAYVATRDNCCILDERFGSYCPTTCGIADFLSTYQTKVDKDLQSLEDILHQ
VENKTSEVKQLIKAIQLTYNPDESSKPNMIDAATLKSRLIMLEEIMKYEASILTHDSSIRYLQEIYNSNNQKIVNL
KEKVAQLEAQCQEPCKDTVQIHDITGKDCQDIANKGAKQSGLYFIKPLKANQQFLVYCEIDGSGNGWTVFQKRLD
GSVDFKKNWIQYKEGFGHLSPTGTTEFWLGNEKIHLISTQSAIPYALRVELEDWNGRTSTADYAMFKVGPEADKY
RLTYAYFAGGDAGDAFDGDFGDDPSDKFFTSHNGMQFSTWDNDNDKFEGNCAEQDGGSGWMMNKCHAGHLNGVYY
QGGTYSKASTPNGYDNGI IWATWKTRWYSMKKTTMKIIPFNRLTIGEGQQHHLGGAKQAGDV

1639/6881
FIGURE 1517

TGCTGACACTACAAGGCTCGGAGCTCCGGGCACTCAGACATCATGAGTTGGTCCTTGCACCCCCGGAATTTAATT
CTCTACTTCTATGCTCTTTTATTCTCTCTTCAACATGTGTAGCATATGTTGCTACCAGAGACAACGTGCTGCATC
TTAGATGAAAGATTCCGGTAGTTATTGTCCAACCTACCTGTGGCATTGCAGATTTCTGTCTACTTATCAAACAAA
GTAGACAAGGATCTACAGTCTTTGGAAGACATCTTACATCAAGTTGAAAACAAAACATCAGAAGTCAAACAGCTG
ATAAAAGCAATCCAACCTCACTTATAATCCTGATGAATCATCAAAACCAAATATGATAGACGCTGCTACTTTGAAG
TCCAGGATAATGTTAGAAGAAATTATGAAATATGAAGCATCGATTTTAACACATGACTCAAGTATTCGATATTTG
CAGGAAATATATAATTCAAATAATCAAAGATTGTTAACTGAAAGAGAAGGTAGCCCAGCTTGAAGCACAGTGC
CAGGAACCTTGCAAAGACACGGTGCAAATCCATGATATCACTGGGAAAGATTGTCAAGACATTGCCAATAAGGGA
GCTAAACAGAGCGGGCTTTACTTTATTAAACCTCTGAAAGCTAACCAGCAATTCCTAGTCTACTGTGAAATCGAT
GGGTCTGGAAATGGATGGACTGTGTTTCAGAAGAGACTTGATGGCAGTGTAGATTTCAGAAAACTGGATTCAA
TATAAAGAAGGATTTGGACATCTGTCTCCTACTGGCACAACAGAATTTTGGCTGGGAAATGAGAAGATTCATTTG
ATAAGCACACAGTCTGCCATCCCATATGCATTAAGAGTGGAACTGGAAGACTGGAATGGCAGAACCCAGTACTGCA
GACTATGCCATGTTCAAGGTGGGACCTGAAGCTGACAAGTACCGCCTAACATATGCCTACTTCGCTGGTGGGGAT
GCTGGAGATGCCTTTGATGGCTTTGATTTTGGCGATGATCCTAGTGACAAGTTTTTCACATCCCATAAATGGCATG
CAGTTTCAGTACCTGGGACAAATGACAATGATAAGTTTGAAGGCAACTGTGCTGAACAGGATGGATCTGGTTGGTGG
ATGAACAAGTGTACGCTGGCCATCTCAATGGAGTTTATTACCAAGGTGGCACTTACTCAAAGCATCTACTCCT
AATGGTTATGATAATGGCATTATTTGGGCCACTTGGAACCCGGTGGTATTCCATGAAGAAAACCACTATGAAG
ATAATCCCATTCACAGACTCACAATTGGAGAAGGACAGCAACACCACCTGGGGGGAGCCAAACAGGTCAGACCA
GAGCACCTGCGGAAACAGAATATGACTCACTTTACCCTGAGGATGATTTGTAGAAAATTAAGTCTAAGTTCTA
TTGACCCACAAAGTTTCAGAAATCTCTGAAAGTTTCTTCCCTTTTCTCTTACTATATTTATTGATTTCAAGTC
TTCTATTAAGGACATTTAGCCTTCAATGGAAATTAAGTCAATTTAGGACTGTATTTCCAAATTACTGATATCAG
AGTTATTTAAAATTGTTTATTTGAGGAGATAACATTTCACTTTGTTCCCTAAATATATAATAATAAATGATTG
ACTTT

1640/6881
FIGURE 1518

MSWSLHPRNLILYFYALLFLSSTCVAYVATRDNCCILDERFGSYCPTTCGIADFLSTYQTKVDKDLQSLLEDILHQ
VENKTSEVKQLIKAIQLTYNPDESSKPNMIDAATLKSRLMEEIMKYEASILTHDSSIRYLQEIYNSNNQKIVNL
KEKVAQLEAQCQEPCKDTVQIHDITGKDCQDIANKGAKQSGLYFIKPLKANQQFLVYCEIDGSGNGWTVFQKRLD
GSVDFKKNWIQYKEGFGHLSPTGTTEFWLGNEKIHLISTQSAIPYALRVELEDWNGRTSTADYAMFKVGPEADKY
RLTYAYFAGGDAGDAFDGFDGDDPSDKFFTSHNGMQFSTWDNDNDKFEGNCAEQDGSWWMMNKCHAGHLNGVYY
QGGTYSKASTPNGYDNGIIWATWKTRWYSMKKTTMKIIPFNRLTIGEGQQHHLGGAKQVRPEHPAETEDSLYPE
DDL

1641/6881
FIGURE 1519

AGCAGCCGCCGCCAGACAGCCGCCGCCACCCGTTTCGCCCCGTCCCCCTGCCGCATTACAAATGCAGCCTGCTTT
TGCAAAGTGGTACGATCGAAGGGACTGTGTCTTCACTGAATCTTGTGTTGAAGACAATAAGGATGTTAATGTAAA
TTTTGAAAAATCCAACTTACATTAGTTGTCTTGGAGGAAGTGATAATTTAAGCATTTAAATGAAATTGGTCT
TTTTTACTCTATTGATCCAAATGATTCCAAGCATAAAAGAACGGACAGATCAATTTTATGTTGTTTACGAAAAGG
AGAATCTGGCCAGTCATGGCCAAGGTTAACAAAAGAAAGGGCAAAGATGATGAACAACATGGGTGGGGATGAGGA
TGTAGATTTACCAGAAGTAGATGAAGCAGGTGATGATTCACAAGACAGTGATGATGAAAAATGCCAGATCTGGA
GTAAGAAATATTTTCATCACCTGGATTTTGAGAAAAGAAA

1642/6881

FIGURE 1520

ATGGTAACCAATGTCAACCAGAATACAAGTGGAGCTCTGTCTTTAAATCAACTGCCACACACTCACATGTCGAAG
ATCCAAATACCCCTTGCAAATGCCTATCCCATTGCCAACGCTGATGCCCCAAGGATGCACACACTGGCTGCGTGGG
CTGCCCTCAGAAAGATGTGCCCCGAGGAGGAAAATTACTCCTGGGCACCAGTACAATTACAGTGGATCAGAGGATT
GCACTGAAAGAGGTGCAAGCTACCTGGTTACTTCACAAATATCTCTACCATACATACTATTATCGACTCAACATT
AGGGTTGTCTGTGCTCAGGACACCAGAGTAAATACTGCCCCAATTCCAGAGATGTACTCCTTCTACATGTGCCCCA
TGCTTCAGGCCTGAGCTCCGTGGCTACTCCATGGACACATCACTTATCAAACACCAGTGCAACCACCACTGCAAG
CAAGCCAACAGGCCAGATTCAGTGCCAAGAGAGATTCTGGCAATCTTAGCAGAAGAACTCAACAAAAACAAAGCCC
ATCTGGACCAGAAATCCAGATGATATTACTAATGAGGAGTACAGAGAATTCTACAAGAGCTTGACTAATGACTGG
GAAGATCACTTAAAGAAAAAGAACAATATCAAATTGTATGTATGCAGAGTTTTTCATCACGGATAACTGTGAGGAG
CTAATCCCTGAATACCTGAACTTCATTAGAGTGCTGGTAGACTCGGAGGATCTCCCTCTAAATATTTCCCATAG
ATGTTACAACAAAGCAAAATTTTGAAAGTTATCAGGAAGAATTGGTCAAAAAATGCTTAGAAGCTCTTTACTGAA
CTGGCAGAAGATAAAGAGAACTACAAGAAGTTCTATGAGCAGTTCTCTGAAAACATAAAGCTTGGAATACATGAA
GACTCTCAAAATCAGAAGAAGCTTTTCAGAGCTGTTAAGGTACTACACATCTGCCTCTGGTGATGAGATGGTTTCT
CTCAAGGACTACTGCACCAGAATAAGGAAAAGTAGAAATGAATCTTAA

1643/6881
FIGURE 1521

MVTNVNQNTSGALSLNQLPHTHMSKIQIPLANAYPIANADAQGCTHWLRGLPSERCARGGKLLGTSTITVDQRI
ALKEVQATWLLHKYLYHTYYYRLNIRVVCAQDTRVNTAPIEMYSFYMCPCFRPELRGYSMDTSLIKHQC�HHCK
QANRPDSVPREILAILAEELNKTPIWTRNPDDITNEEYREFYKSLTNDWEDHLKKKNNIKLYVCRVFITDNCEE
LIPEYLNFIIRVLVDSIDLPLNISHKMLQQSKILKVIRKNLVKKCLELFTELAEDKENYKKFYEQFSENIKLGHE
DSQNQKKLSELLRYTSASGDEMVS�KDYCTRIRKTRNES

1644/6881
FIGURE 1522

GATGTGGCCCGTGGCCTAGCTCGTCAAGTTGCCGTGGCGCGGAGAACTCTGCAAAACAAGAGGCTGAGGATTGCG
TTAGAGATAAACAGTTCACGCCGGAGCCCCGTGAGGGAAGCGTCTCCGTTGGGTCCGGCCGCTCTGCGGGACTC
TGAGGAAAAGCTCGCACCAGGTGGACGCGGATCTGTCAACATGGGTAAAGGAGACCCCAACAAGCCGCGGGGCAA
AATGTCTCTCGTACGCCTTCTTCGTGCAGACCTGCCGGGAAGAGCACAGAAGAAACACCCGGACTCTTCCGTCAA
TTTCGCGGAATTCTCCAAGAAGTGTTCGGAGAGATGGAAGACCATGTCTGCAAAGGAGAAGTCGAAGTTGAAGA
TATGGCAAAAAGTGACAAAGCTCGCTATGACAGGGAGATGAAAAATTACGTTCCCTCCCAAGGTGATAAGAAGGG
GAAGAAAAAGGACCCCAATGCTCCTAAAAGGCCACCATCTGCCTTCTTCTGCTCTGAACATCGCCCAA
GATCAAAAGTGAACACCCTGGCCTATCCATTGGGGATACTGCAAAGAAATTGGGTGAAATGTGGTCTGAGCAGTC
AGCCAAAGATAAACCAACCATATGAACAGAAAGCAGCTAAGCTAAAGGAGAAATATGAAAAGGATATTGCTGCATA
TCGTGCCAAGGGCAAAAGTGAAGCAGGAAGAAGGGCCCTGGCAGGCCAACAGGCTCAAAGAAGAAGAACGAACC
AGAAGATGAGGAGGAGGAGGAGGAAGAAGAAGATGAAGATGAGGAGGAAGAGGATGAAGATGAAGAATATAATGGC
TATCCTTTAATGATGCGTGTGGAATGTGTGTGTGCTCAGGCAATTATTTTGCTAAGAATGTGAATTCAAGTGC
AGCTCAATACTAGCTTCAGTATAAAAACGTACAGATTTTTGTATAGCTGATAAGATTCTCTGTAGAGAAAATAC
TTTTAAAAAATGCAGGTTGTAGCTTTTTGATGGGCTACTCATACAGTTAGATTTTACAGCTTCTGATGTTGAATG
TTCCTAAATATTTAATGGTTTTTTTAAATTTCTGTGTGTATGGTAGCACAGCAAACCTTGTAGGAATTAGTATCAAT
AGTAAATTTTGGGTTTTTTAGGATGTTGCATTTCTTTTTTAAAAAAATTTTGTAATAAAATTATGTATATTA
TTTCTATTGTCTTTGTCTTAATATGCTAAGTTAATTTTCACTTTAAAAAAGCCATTGAAGACCAAAAAAAAAA
AA

1645/6881
FIGURE 1523

MGKGDPNKPRGKMSSYAFFVQTCREEHKKKHPDSSVNFAEFSKKCSERWKTMSAKEKSKFEDMAKSDKARYDREM
KNYVPPKGDKKGKKKDPNAPKRPPSAFFLFCSEHRPKIKSEHPGLSIGDTAKKLGEMWSEQSAKDKQPYEQKAAK
LKEYEKDIAAYRAKGKSEAGKKGPGRPTGSKKKNEPEDEEEEEEEEEDEEEEEDEEE

1646/6881
FIGURE 1524

CAGCCCCCTCTGCGGCTGCCGGGCGGGCCCCGGGCGCCCCGGGGGCTGGGGGGTGGGGGGTGGGGGAGGACGCCGAG
CGCTGAGGCAGGGGCCCGGGCCGAGGGCGCGGGGGGCTGCGCGCACGCTGGGGCGCGTGGAGGGGCGCGGAGGG
CGAAATGAGTCTGGTAGGTGGTTTTCCCCACCACCCGGTGGTGCACCACGAGGGCTACCCGTTTGCCGCCGCGC
CGCCGCAGCTGCCGCCGCCGCCAGCCGCTGCAGCCATGAGGAGAACCCTACTTCCATGGCTGGCTCATCGG
CCACCCGAGATGTGCCCCCGGACTACAGCATGGCCCTGTCCTACAGCCCCGAGTATGCCAGCGGCGCCGCCGG
CCTGGACCACTCCCATTACGGGGGGGTGCCGCCGGGCGCCGGGCCCCGGGCTGGGGGGGCGCGCCCGGTGAA
GCGCCGAGGCACCGCAACCGCAAGGAGCGGCGCAGGACTCAGAGCATCAACAGCGCCTTCGCCGAATGCGCGA
GTGCATCCCCAACGTACCCGCCGACACCAAATCTCCAAATCAAGACCCTGCGCCTGGCCACCAGCTACATCGC
CTACCTCATGGACCTGCTGGCCAAGGACGACCAGAATGGCGAGGCGGAGGCCTTCAAGGCAGAGATCAAGAAGAC
CGACGTGAAAGAGGAGAAGAGGAAGAAGGAGCTGAACGAAATCTTGAAAAGCACAGTGAGCAGCAACGACAAGAA
AACCAAAGGCCCGACGGGCTGGCCGCAGCACGTCTGGGCCCTGGAGCTCAAGCAGTGAGGAGGAGGAGAAGGAGG
AGGAGGAGAGCGCGAGTGAGCAGGGGCCAAGGCGCCAGATGCAGACCCAGGACTCCGGAAAAGCCGTCCGCGCTC
CGCTCTGAGGACTCCTTGCAATTTGGAATCATCCGTTTATTTATGTGCAATTCCTTCCCCCTCTCTTTGACCCCC
TTTGAGGCATCTGCTCCCCGTCTCCCCCTCCAAAAAAAAGTGGATATTTGAAGAAAAGCATTCCATATTTTAAT
ACGAAGAGGACACTCCCGTGTGCAGGCCGAATCAGACCCGGCGTGGGCGAATTCAGAAGTGCCAGGGAGAGACA
AGCTAGAGGCTCTGCGGACTTCTGCGGGCGGCTGACAACGCGAGGGCGAGGGGAGAAAGCCATCAGGTCCTAGAC
GTGGAAGAAAGGAGCCTACCAAAGTGTGGAGTAAAC

1647/6881
FIGURE 1525

TTCAC TATTAA AATATTTTCCCCCAAGTCTCAAATATTGAAGAATCTCTAACCAGAAGGCACAGATCATTTCATG
GGGATGTATAACCGAAACCAGTCCTCTCCACCGCCTGGGGATCTTCACTTTCGCAGTCTACGACTGCCTGTGACT
CCAGAAAGACAAACTGCAGATTGGCCAAGCTGCCTGAAGACCCAGCCCGACAGCGATGCCTGTCAGCCCGCGTCG
CCCACCAGGGCAGCTGCTCTCCCAACTCGCATGGGGGGCACCACCCCGCCTCGGTGCCCTAGAGCTGAGCGCAGC
CGCGGCTCCACGGGGATCGCCAGGGCCTCAGCCCTCGCGGCCGGCGGGAGTGTTGCGGGGCAGGGACCAG
AGCGCGATCAGAGCGGCCACCCCGATTAGGTGCGCCAGCTTTCAGTCACTGCGATGGCCACTGGGGCGCCCCT
TCCATCCTGGTTAAATTCTCATTGTGATCCCCAGCCCTCTTCTCGGTTCCCCACACCCAGGAGGCCGGTTCTCCG
CCGCTCAGGCTGGGAGAGGTACCGCTCCGGGCAGGGTGGACCCCGAGTCCGTCTCGGAGGACCTTTCGCCGGA
GGCGAGCAGGAAGGGGTTAACCATGAGCCTCCACCCCTCACCTCCCAGACCCTGGTGCCGGGCTAAGGCCTCCGC
TTCCCTCCTGAGGTCTCATTAGGAAACCCTCACCGCTATTTTCAACATTTCTCAATCAAGTGCCTTTAAATAGA
GCTGCACAAACAGATTGGCGGC AAAAGCGTAGATCTTGTCACGATTGAGACCAATCCAGTATTTACGCCTTGTTT
GCTTTGCAATTACGGGTTGGCTTGTTGGCTACGGTGCCACCGGGGCAAATCTGCAGCCGCTCGCTTCTCCTCTGC
GCTCCGGGCGGGTGGAGGAAGCGACCCGCGGAGTCACTGCAGGGAGGAGAGGGGGACGCGCGGGGGGAGGCGG
CGGAGGGCGGAGGAGACTCGCTTGACCCCAAGGC

1648/6881
FIGURE 1526

GGAGGCAAACAACCCATCTCTCTTGGAGAATCCACACTTCGTTTCTTCTAGGTCCAGCCTAAATGTTACCTCCTC
CAGGGAGCCTTTCCAGATACTGCTTCTCCTCTCTCCCCAACTCCCTCCCACAAATGAAGTTTTCTCTTCTGAAT
TCCTTGCTGGTACTGTCACTTATATTCTTTTGGGTAGATCTCTGGGCATGCATATGTACCTCCTGTGACTGTGG
GTTTCTTGACAACCTAATCAATGCATTGAACAAAGGAGATGTTTAGACAACCCATATAAAATGAATAAGAGAAAT
AGGGTGAATACCGTCTACCCCAATTGCAATCAGATTAGTTTCCTTTATTTGAAAACGATTAGAACTAGTAGAGG
AGTTAGATGTGGCCCACTAGGGAACAAATTTTCATCTCCAAGCCGTCCTCTGGCTCGATCGGGTCTGCACTGGGT
CTGCATCAACTTGCGCTGGCTCAGAGGGAGGCTCAGCCCCAGCCTGGCCTTCTGGTGGCCACTCCCAACATCCT
GAGCAGGGCCGACTCTAGGCACCCACGATTAGCTGAGTGATCTAGGGCAAGGACCTAGGCGTCTCTAAGTCTTA
GTTTCCCCATCTGAACAATGTTGGATAATGACACGTACCTGGGGTGGGCAGGCTAGAGTAAATGGGAAAATCAAAG
CGCCAGCCAGAGCGGGTCCGACTGTTAGTTTCTGTATTTCTCTCTCTGCTCTGGTTTTCTCCGTTCCGTTCTA
GCTGCCTGAAGACCCAGCCCGACAGCGATGCCTGTGAGCCGCGTCGCCACCAGGGCAGCTGCTCTCCCAACTC
GCATGGGGGGGACACCACCCGCTCGGTGCCCTAGAGCTGAGCGCAGCCGCGGCTCCACGGGGATCGCCAGGGCCT
CAGCCCTCGCGGCCGCGGCGCGGGAGTGTTGCGGGGCAGGGACAGAGCGCGATCAGAGCGGCCACCCCGATT
TAGGTCGCCAGCTTTCCAGTCACTGCGATGGCCACTGGGGCGCCCTTCCATCCTGGTTAAATTCTCATTGTGAT
CCCCAGCCCTCTTCTCGGTTCCCCACACCCAGGAGGCCGTTCTCCGCCGCTCAGGCTGGGAGAGGTCACCGCTC
CGGGCAGGGTGGACCCCCAGCTCCGTCTCGGAGGACCTTTCGCCGAGGCGAGCAGGAAGGGGTTAACCATGAGC
CTCCACCCCTCACCTCCCAGACCCTGGTGCCGGGCTAAGGCCTCCGCTTCCCTCCTGAGGTCTCATTAGGAAACC
CTCACCCTATTTTCAACATTTCTCAATCAAGTGCCTTTAAATAGAGCTGCACAAACAGATTGGCGGCAAAAGC
GTAGATCTTGTACGATTGAGACCAATCCAGTATTTAGCCTTGTTTGCTTTGCAATTACGGGTTGGCTTGTGGC
TACGGTGCCACCGGGGCAATCTGCAGCCGCTCGCTTTCTCTCTGCGCTCCGGGCGGGTGGAGGAAGCGACCCG
CGGAGTCACTGCAGGGAGGAGAGGGGGACGCGCGCGGGGGAGGCGGAGGGCGGAGGAGACTCGCTTGCACC
CCAGGGCCGCGGGCACGCAGAGCTGTGTTGAAGGACATACTTTTCAGGTTCTGACAGTCACTGAGCTATACGCA
ATAATAAAGTGCGTGATTTCGCGTGTTGAAACCAGTGTCGTCTTACCAGGCTTCCCTTTTGTGCCACCTTCCCT
CTCTCTTCTACCTCCGTCTCGCTTTTCTTTCAGTGCAATGTTAGCGGTTTGCTGGATTTCCTTCTCCCTCGCTGTT
CAACTGCTAGCATGATTTGTTACATTTTCCACAGCTGTTTATTTCTGTTTACTTTTGTACAAAGTCACTTTAA
ATCTGCTGCAGAAAGAATAAAGCACCTAGCCCTTTGGATGGACTCCTGCAGGCGTGTGGCTGTCCCTGGCCCACT
TTTAATTCTTTGGAGATGGCTCTTCTGTGTAAATCAGCTGCTGGGTGCGTTTCGGTCACCTCGTAGGCCAGCCTAG
TTTGTATCAGCAGAACAGTAGTGACTCGACTCAGGTCGTAAGCCTTATATTTACAGACAATTAAATCTTGGCT
GCTGTTGAACAAAACCTGTAATATTTACTTTGTTCTATACCGAGAAGCACTTTTAAAGT

1649/6881
FIGURE 1527

MWIMTRTWGGQARVNGKIKAPARAGRTVSSCIFSSCLWFLPFRSSCLKTQPDSDACQPASPTRAAALPTRMGTT
PPRCPRASERSRGSTGIARASALAAGGAGVLRGRDQSAIRAATPDLGRQLSSHCDGHWGAPSILVKFSL

1650/6881
FIGURE 1528

GAAGGAGGAGGTGGCAAATCACTTATAAATGGTGCTGAAGCAGGACCCGAAGCCTAAATTCCAGGAGGGTGAGCG
AGTGCTGTGGTTTCATGGGCCTCTGCTTTATGATGCAAAGTGTGTAAAGGTTGCCATAAAGGACAAAAAGTGAAA
TACTTTATACATTACAGTGGTTGGAATAAAAATTGGGATGAGTGGGTTCCGGAGAGCAGAGTACTCAAATATGTG
GACACCAATTTGCAGAAACAGCGAGAATTCAAAAAGCCAATCAGGAGCAGTATGCAGAGGGGAAGATGAGATGG
GCTGCCCCAGGAAAGAAGACATCTGGTCTGCAACAGAAAAATATTGAAGTGAAAACAAAAAAGAACAAACAGAAA
ACACCTGGAAATGGAGATGGTGGCAGTACCAGTGAGACTCCCCAGCCTCCTCGAAAGAAAAGGGCCCAGGTAGAT
CCTACTGTTGAAAATGAGGAAACATTTCATGAACAGAGTTGAAGTTAAAGTAAAGATTCTCTGAAGAGCTAAAACCA
TGGCTTGTGTGATGACTGGGACTTAATTACCAGGCAAAAACAGCTCTTCTATCTTCCTGCCGAGAAGAATGTGGAT
TCCATTCTTGAGGACTATGCAAATTACAAGAAATCTCATGGAACACAGATAATAAGGAGTATGCAGTTAATGAA
GTTGTGGCAGGGATAAAAGAATACTTCAACCTAATGTTGGGCACCCAGCTACTCAACAAATTTGAGAGACCACAG
TATGCCGAAATTTCTGCAGATTGTCCCGATGCACCCATGTCCCAGGTGTATGGAGTGCACATCTCCTGAGATTA
TCTGTACAAATTTGGAGCAATGTTGGCCTATACACCTCTGAATGAGAAGAGCCTTGCTTTATTACTCAATTATCTT
CACGATTTCTTAAAGTACCTGGCAAAGAATTCTGCAACTTTGTTTAGTGCCAGCGATTATGAAGTGGCTCTTCCT
GAGTACCATCGGAAAGCTGTGTGAGAGGCACTCTCACTCACTTATGTCTGGATCTCCATAAACACATTTTTGTTC
TTAGTCTATCTCTTGTACAAACGATGTGCTTTGAAGATGTAGTGTATAACAATTGATGTTTGTCTTTCTGTTGA
TTTTAAACAGAGAAAATAAAAGGGGTAATAGCTCCTTTTCTCTTTTTTTTTTTTTTTTTTCAATTTCAAAGTTGCTG
CCAGTGTTTTCAATGATGGACAACACAGGGATATGCTGTAGAGTGTGTTTATTGCCTAGTTGACAAAGCTGCTTTT
GAATGCTGGTGGTTCTATTCTTTAACACTATGCATTTTATAATACGTGTTAATGCTACATGACAAATGCTCT
GATTCCTAGTGCCAAAGGTTCAATTCAGTGTATATAACTGAATACACTCATCCATTTGTGCTCCTTTTTTTTTTT
AATGGTGCTTAAAGTAAAGAGCCCATCCTTTGCAAGTCATCCATGTTGCTACTTAGGCATTTTATCTTGGCTCAA
ATTGTTGAAGAATGGCTTGTTCACAGTTTTTGTATTTGTGCTAATGCACGTTTTAACATGATAGATGCAATGC
ATTGTGIAGCTACTTTTCTGAAAAGTCAATCTTTTAGGAATTGTTTTTCAGATCTTCATTAAATTTTTTCCTTA
AATTC

1651/6881
FIGURE 1529

MRWAAPGKKTSGLQQKNIEVKTKKNKQKTPGNGDGGSTSETPQPPRKKRAQVDPTVENEETFMNRVEVKVKIPEE
LKPWLVDWDLITRQQLFYLPAEKNVDSILEDYANYKKSHGNTDNKEYAVNEVVAGIKEYFNLMLGTQLLNKFE
RPQYAEILADCPDAPMSQVYGVPHELLRLSVQIGAMLAYTPLNEKSLALLLNHLDFLKYLAKN SATLFSASDYEV
ALPEYHRKAV

1652/6881
FIGURE 1530A

CTGGGCGGCGGGGCGCGGGGAGAGGGCGCGGGAGCGGCTCGTGCGGCAGGTACCATGCGGACGCGCGAGCCCCGGC
GAGGGCCCCGGCAGGCCCCGTCCCTGCTCGGGGGCGCGCTGAGACGGCGGGTGAGCTCCACGAGAGCGCGCTCGC
CACTTCGGGCGCAACTTTTGGCATTCCCGACAGTTAAGCAATGGGGAGACATTTGGCTTTGCTCCTGCTTCTGCTCC
TTCTCTTCCAACATTTTGGAGACAGTGATGGCAGCCAACGACTTGAACAGACTCCTCTGCAGTTTACACACCTCG
AGTACAACGTCACCGTGCAGGAGAACTCTGCAGCTAAGACTTATGTGGGGCATCCTGTCAAGATGGGTGTTTACA
TTACACATCCAGCGTGGGAAGTAAGGTACAAAATTGTTTCCGGAGACAGTGAAAACCTGTTCAAAGCTGAAGAGT
ACATTCTCGGAGACTTTTGTCTTCTAAGAATAAGGACCAAAGGAGGAAATACAGCTATTCTTAATAGAGAAGTGA
AGGATCACTACACATTGATAGTGAAAGCACTTGAAAAAATACTAATGTGGAGGCGCGAACAAGGTCAAGGTGCG
AGGTGCTGGATACAAATGACTTGAGACCGTTATTCTCACCACCTCATACAGCGTTTCTTTACCTGAAAACACAG
CTATAAGGACCAAGTATCGCAAGAGTCAGCGCCACGGATGCAGACATAGGAACCAACGGGGAATTTTACTACAGTT
TTAAAGATCGAACAGATATGTTTGCTATTACCCCAACCAAGTGGTGTGATAGTGTAACTGGTAGACTTGATTACC
TAGAGACCAAGCTCTATGAGATGGAAATCCTCGCTGCGGACCGTGGCATGAAGTTGTATGGGAGCAGTGGCATCA
GCAGCATGGCCAAGCTAACGGTGCACATCGAACAGGCCAATGAATGTGCTCCGGTGATAACAGCAGTGAATGT
CACCATCAGAACTGGACAGGGACCCAGCATATGCAATTGTGACAGTGGATGACTGCGATCAGGGTGCCAATGGTG
ACATAGCATCTTTAAGCATCGTGGCAGGTGACCTTCTCCAGCAGTTTAGAACAGTGAGGTCTCTTTCCAGGGAGTA
AGGAGTATAAAGTCAAAGCCATCGGTGGCATTGATTGGGACAGTCATCCTTTCCGGCTACAATCTCACACTACAGG
CTAAAGATAAAGGAACCTCGCCCCAGTTCTCTTCTGTTAAAGTCATTCACGTGACTTCTCCACAGTTCAAAGCCG
GGCCAGTCAAGTTTGAAGGATGTTTACAGAGCAGAAATAAGTGAATTTGCTCCTCCCAACACACCTGTGGTCA
TGGTAAAGGCCATTCTGCTTATTCCCATTTGAGGTATGTTTTTAAAGTACACCTGGAAAAGCTAAATTCAGTT
TAAATTACAACACTGGTCTCATTTCTATTTTAGAACAGTTAAAGACAGCAGGCAGCCATTTTGAAGTTGAAG
TAACAACAAGTGACAGAAAAGCGTCCACCAAGGTCTTGGTGAAAGTCTTAGGTGCAATAGCAATCCCCCTGAAT
TTACCCAGACAGCGTACAAAGCTGCTTTTGATGAGAACGTGCCCATTGGTACTACTGTGTCATGAGCCTGAGTGCCG
TAGACCTGATGAGGGTGAGAACGGGTACGTGACATACAGTATCGCAAATTTAAATCATGTGCCGTTTGCGATTG
ACCATTTCACTGGTGCCGTGAGTACGTGAGAAACCTGGACTACGAACTGATGCCTCGGGTTTATACTCTGAGGA
TTCGTGCATCAGACTGGGGCTTGCCGTACCGCGGGAAGTCAAGTCCCTTGCTACAATTACTCTCAATAAAGTTGA
ATGACAACACACCTTTGTTTGAAGAAATAAATTGTGAAGGGACAATTCCCAGAGATCTAGGCGTGGGAGAGCAAA
TAACCACTGTTTCTGCTATTGATGCAGATGAACCTTCAGTTGGTACAGTATCAGATTGAAGCTGGAAATGAAGTGG
ATTTCTTTTAGTTTAAACCCCACTCGGGGGTATTGTCAATAAGCGATCGCTAATGGATGGCTTAGGTGCAAAGG
TGTCTTTCCACAGCTGAGAAATCAGACTACAGATGGAGAAAATTTTGCCACACCATTATATATCAACATAACAG
TGGCTGCCAGTCAAGCTGGTAAACTTGCAGTGTGAAGAGACTGGTGTGCCAAAATGCTGGCAGAGAAGCTCC
TGCAGGCAAAATAAATTACACAACCAGGGAGAGGTGGAGGATATTTTCTTCGATTCTCACTCTGTCAATGCTCACA
TACCGCAGTTTAGAAGCACTCTCCGACTGGTATTTCAGGTAAAGGAAAACAGCCTGTGGGTTCCAGTGAATTT
TCATGAAGTCCACTGACCTTGACACTGGCTTCAATGGAAAAGTGGTCTATGCTGTTTCTGGAGGAAATGAGGATA
GTTGCTTCATGATTGATATGGAACAGGAATGCTGAAAATTTTATCTCCTCTTGACCGTGAAACAACAGACAAAT
ACACCTGAAATATTACCGTCTATGACCTTGGGATACCCAGAAAGGCTGCGTGGCGCTCTTCTACATGTCGTGGTTG
TCGATGCCAATGATAATCCACCCGAGTTTTTACAGGAGAGCTATTTTGTGGAAGTGAGTGAAGACAAGGAGGTAC
ATAGTGAAATCATCCAGGTTGAAGCCACAGATAAAGACCTGGGGCCCAACGGACACGTGACGTACTCAATTGTTA
CAGACACAGACACATTTTCAATTGACAGCGTGACGGGTGTTGTTAACATCGCACGCCCTCTGGATCGAGAGCTGC
AGCATGAGCACTCCTTAAAGATTGAGGCCAGGGACCAAGCCAGAGAAGAGCCTCAGCTGTTCTCCACTGTCGTTG
TGAAAGTATCACTAGAAGATGTTAATGACAACCCACCTACATTTATTCCACCTAATTATCGTGTGAAAGTCCGAG
AGGATCTTCCAGAAGGAACCGTCATCATGTGGTTAGAAGCCACGATCCTGATTTAGGTCACTGTTGTCAGGTGA
GATACAGCCTTCTGGACCACGGAGAAGGAACTTCGATGTGGATAAACTCAGTGGAGCAGTTAGGATCGTCCAGC
AGTTGGACTTTTGAAGAAGCAAGTGATAATCTCACTGTGAGGGCCAAAGACAAGGAAAGCCAGTTTCTCTGT
CTTCTACTTGCTATGTTGAAGTTGAGGTGGTTGATGTGAATGAGAACCTGCACCCACCCGTTTTCAGCTTTG
TGGAAAAGGGGACAGTGAAAGAAGATGCACCTGTTGGTTCAATTGGTAATGACGGTGTGCGCTCATGATGAGGACG
CCAGAAGAGATGGGGAGATCCGATACTCCATTAGAGATGGCTCTGGCGTTGGTGTTTTCAAATAGGTGAAGAGA
CAGGTGTATAGAGACGTGAGTGCAGTGGACCGTGAATGCACCTCCCATTATTGGCTAACAGTCTTTGCAACCG
ATCAGGGTGTGCTGCCTCTTTCATCGTTTATAGAGATCTACATAGAGGTGAGGATGTCAATGACAATGCACCAC

1653/6881
FIGURE 1530B

AGACATCAGAGCCTGTTTATTACCCAGAAATCATGGAAAATTCTCCTAAAGATGTATCTGTGGTCCAGATCGAGG
CATTGATCCAGATTTCGAGCTCTAATGACAAGCTCATGTACAAAATTACAAGTGGAAATCCACAAGGATTCTTTT
CAATACATCTAAAACAGGTCTCATCACAACCTACGTCAAGGAAGCTAGACCGAGAACAGCAAGATGAACACATAT
TAGAGGTTACTGTGACAGACAATGGTAGTCCCCCAAAATCAACCATTGCAAGAGTCATTGTGAAAATCCTTGATG
AAAATGACAACAAACCTCAGTTTCTGCAAAAGTTCTACAAAATCAGACTCCCTGAGCGGGAAAAGCCAGACCGAG
AAAGAAATGCCAGACGGGAGCCGCTCTATCAGCTCATAGCCACCGACAAGGATGAGGGCCCCAATGCAGAAAATCT
CCTACAGCATCGAAGACGGGAATGAGCATGGCAAATTTTTCATCGAACCGAAAACCTGGAGTGGTTTCGTCCAAGA
GGTTTTTCAGCAGCTGGAGAATATGATATTCTTTCAATTAAGGCAGTTGACAATGGTCGCCCTCAAAAGTCATCAA
CCACCAGACTCCATATTGAATGGATCTCCAAGCCCCAACCGTCCCTGGAGCCCATTTCATTTGAAGAATCATTTT
TTACCTTTACTGTGATGGAAAGTGACCCCGTTGCTCACATGATTGGAGTAATATCTGTGGAGCCTCCTGGCATA
CCCTTTGGTTTGACATCACTGGTGGCAACTACGACAGTCACTTCGATGTGGACAAGGGAACCTGGAACCATCATTG
TTGCCAAACCTCTTGATGCAGAACAGAAAGTCAAACTACAACCTCACAGTCGAGGCTACAGATGGAACCACTA
TCCTCACTCAGGTATTTCATCAAAGTAATAGACACAAATGACCATCGTCCCTCAGTTTTCTACATCAAAGTATGAAG
TTGTTATTCTGAAGATACAGCGCCAGAAACAGAAAATTTTGCAAAATCAGTGCTGTGGATCAGGATGAGAAAAACA
AACTAATCTACACTCTGCAGAGCAGTAGAGATCCACTGAGTCTCAAGAAATTTCTGTTGATCCTGCAACCGGCT
CTCTCTATACTTCTGAGAACTGGATCATGAAGCTGTTACCAGCACACCCTCACGGTCATGGTACGAGATCAAG
ATGTGCCCTGTAACGCAACTTTGCAAGGATTGTGGTCAATGTCAGCGACACGAATGACCACGCCCGTGGTTCA
CCGCTTCCTCTACAAAGGGCGGGTTTATGAATCGGCAGCCGTTGGCTCAGTTGTGTTGCAGGTGACGGCTCTGG
ACAAGGACAAAGGGAAAAATGCTGAAGTGCTGACTCGATCGAGTCAGXXXXXXXXXGAAATATTGGAAATCTT
TTATGATTGATCCTGTCTTGGGCTCTATTAAACTGCCAAAGAATTAGATCGAAGTAACCAAGCGGAGTATGATT
TAATGGTAAAAGCTACAGATAAGGGCAGTCCACCAATGAGTGAATAACTTCTGTGCGTATCTTTGTCACAATTG
CTGACAACGCCTCTCCGAAGTTTACATCAAAGAATATTCTGTTGAACCTAGTGAACTGTGAGCATTGGGAGTT
TCGTTGGGATGGTTACAGCCCATAGTCAATCATCAGTGGTGTATGAAATAAAAGATGGAAATACAGGTGATGCTT
TTGATATTAAATCCACATTCTGGAATATCATCACTCAGAAAGCCCTGGACTTTGAACTTTGCCCATTTACACAT
TGATAATACAAGGAATAACATGGCTGGTTTGCCACTAATACAACGGTTCTAGTTCATTGTCAGGATGAGAATG
ACAACGCGCCAGTTTTTATGCAGGCAGAAATATACAGGACTCATTAGTGAATCAGCCTCAATTAACAGCGTGGTCC
TAACAGACAGGAATGTCCCACTGGTGATTTCGAGCAGCTGATGCTGATAAAGACTCAAATGCTTTGCTGTATATC
ACATTGTTGAACCATCTGTACACACATATTTTGCTATTGATTCTAGCACTGGTGCTATTACATACAGTACTAAGTC
TGGACTATGAAGAAACAAGTATTTTCACTTTACCGTCCAAGTGCATGACATGGGAACCCACGTTTATTGCTG
AGTATGCAGCGAATGTAACAGTACATGTAATTGACATTAATGACTGCCCCCTGTGTTTGCCAAGCCATTATATG
AAGCATCTCTTTTGTACCAACATACAAAGGAGTAAAGTCATCAGTAAATGCTACAGATGCTGATTCAAGTG
CATTCTCAGATTGATTACTCCATCACCAGGCAACATCGGGGAGAAGTTTTCTATGGACTACAAGACTGGTG
CTCTCACTGTCCAAACACAACCTCAGTTAAGAAGCCGCTACGAGCTAACCGTTAGAGCTTCCGATGGCAGATTG
CCGGCCTTACCTCTGTCAAAATTAATGTGAAAGAAAGCAAAGAAAGTCACCTAAAGTTTACCCAGGATGTCTACT
CTGCGGTAGTGAAGAGAATTCACCCGAGGCCGAAACATTAGCTGTGCTATTGCTATTGGGAATCCAATCAATG
AGCCTTTGTTTTATCACATCCTCAACCCAGATCGCAGATTTAAAATAAGCCGCACTTCAGGAGTTCTGTCAACCA
CTGGCACGCCCTTCGATCGTGAGCAGCAGGAGGCGTTTGATGTGGTTGTAGAAGTGACAGAGGAACATAAGCCTT
CTGCAGTGGCCCCACGTTGTCGTGAAGGTCATTGTAGAAGACCAAAATGATAATGCGCCGGTGTGTTGTCAACCTT
CCTACTACGCCGTTGTTAAAGTGACACTGAGGTGGGCCATGTCATTGCTATGTCAGTCTGTGACAGAGACA
GTGGCAGAAACGGGGAAGTGCACTTACTACCTCAAGGAACATCATGAACACTTTCAAATTGGACCTTGGGTGAAA
TTTCACTGAAAAAGCAATTTGAGCTTGACACCTTAAATAAAGAATATCTTGTACAGTGGTTGCAAAAGATGGAG
GGAACCCGGCCTTTTTCAGCGGAAGTTATCGTTCCGATCACTGTGATGAATAAAGCCATGCCTGTGTTGAAAAAC
CTTTCTACAGTGCAGAGATTGACAGAGCATCCAGGTGCACAGCCCTGTGGTCCACGTGCAGGCTAACAGCCCGG
AAGGCTGAAAGTGTTCTACAGCATCACAGACGGAGACCTTTTCAGCCAGTTCACTATTAACTTCAATACTGGAG
TTATCAATGTCTAGCTCCTCTGGACTTTGAGGCCACCCGCGCATATAAGCTGAGCATAACGCGCAACTGACTCCT
TGACGGGCGCTCATGCTGAAGTATTTGTGGACATCATAGTAGACGACATCAATGATAACCTCCTGTGTTTGCTC
AGCAGTCTTATGCGGTGACCTGTCTGAGGCATCTGTAATTGGAACGTCTGTGTTCAAGTTAGAGCCACCGATT
CTGATTCAGAACCAATAGAGGAATCTCATACCAGATGTTTGGGAATCACAGCAAGAGTCATGATCATTTTCATG

1654/6881
FIGURE 1530C

TAGACAGCAGCACTGGCCTCATCTCACTACTCAGAACCCTGGATTACGAGCAGTCCCGGCAGCACACGATTTTTG
TGAGGGCAGTTGATGGTGGTATGCCCACGCTGAGCAGTGATGTGATTGTACGGTGGACGTTACCGACCTCAATG
ATAATCCACCACCTCTTTGAACAACAGATTTATGAAGCCAGAATTAGCGAGCACGCCCTCATGGGCATTTCTGTGA
CCTGTGTAAAAGCCTATGATGCAGACAGTTTCAGACATAGACAAGTTGCAGTATTCCATTCTGTCTGGCAATGATC
ATAAACATTTTGTCTATTGACAGTGAACAGGGATTATCACCCCTCTCAAACCTGCACCGGCACGCCCTGAAGCCAT
TTTACAGTCTTAACCTGTGAGTGTCTGATGGAGTTTTTAGAAGTTCCACCCAGGTTTCATGTAAGTGTAAATGGAG
GCAATTTGCACAGTCTGCTTTCTTTTTCAGAACGAATATGAAGTGGAACTAGCTGAAAACGCTCCCCCTACATACCC
TGGTGTATGGAGGTGAAAACCTACGGATGGGGATTCTGGTATTTATGGTCACGTTACTTACCATATTGTAATGACT
TTGCCAAAGACAGATTTTACATAAATGAGAGAGGACAGATATTTACTTTGGAAAACTTGATCGAGAAAACCCCGG
CGGAGAAAGTGATCTCAGTCCGTTTAAATGGCTAAGGATGCTGGAGGAAAAGTTGCTTTCTGCACCGTGAATGTCA
TCCTTACAGATGACAATGACAATGCACCACAATTTTCGAGCAACCAAATACGAAGTGAATATCGGGTCCAGTGCTG
CTAAAGGGACTTCAGTCGTTAAAGTTCTTGCAAGTGATGCCGATGAGGGCTCCAATGCCGACATCACCTATGCCA
TTGAAGCAGACTCTGAAAGTGTAAGAGAAATTTGGAAATTAACAACTGTCCGGCGTAATCACTACAAAGGAGA
GCCTCATTGGCTTGGAAAATGAATTTCTTCACTTTCTTTGTTAGAGCTGTGGATAATGGGTCTCCATCAAAGAAT
CTGTTGTTCTTGTCTATGTTAAATCCTTCCACCGGAAATGCAGCTTCCAAAATTTTCAGAACCTTTCTATACCT
TTACAGTGTGACAGGACGTGCCTATTGGAACAGAGATAGATCTCATCCGAGCAGAACATAGTGGGACTGTTCTTT
ACAGCCTGGTCAAAGGGAATACTCCAGAAAGCAATAGGGATGAGTCCTTTGTGATTGACAGACAGAGCGGGAGAC
TGAAGTTGGAGAAGAGTCTTGATCATGAGACAACTAAGTGGTATCAGTTTTCCATACTGGCCAGGTGCACTCAAG
ATGACCATGAGATGGTGGCTTCTGTAGATGTTAGTATCCAAGTGAAAGATGCAAATGACAACAGCCCGGTCTTTG
AATCTAGTCCATATGAGGCATTCATTGTTGAAAACCTGCCAGGGGGAAGTAGAGTAATTCAGATCAGGGCATCTG
ATGCTGACTCAGGAACCAACGGCCAAGTTATGTATAGCCTGGATCAGTCACAAAGTGTGGAAGTCATTGAATCCT
TTGCCATTAACATGGAACAGGCTGGATTACAACCTTTAAAGGAACCTTGACCATGAAAAGAGAGACACTTACCAGA
TTAAAGTGGTTGCATCAGATCATGGTGAAGATCCAGCTATCCTCCACAGCCATTGTGGATGTTACCGTCAACCG
ATGTCAACGATAGTCCACCACGATTACGGCCGAGATCTATAAAGGGACTGTGAGTGAGGATGACCCCTAGGTG
GGGTGATTGCCATCTTAAGTACCACGGATGCTGATTCTGAAGAGATCAACAGACAAGTTACATATTTTATAACAG
GAGGGGATCCTTTAGGACAGTTTGTCTGTTGAACTATACAGAAATGAATGGAAGGTATATGTGAAGAAACCTCTAG
ACAGGGAAAAAAGGGACAATTACCTTCTTACTATCACGGCAACTGATGGCACCTTCTCATCAAAGCGATAGTTG
AAGTGAAAGTTCTGGATGCAAATGACAACAGTCCAGTTTGTGAAAAGACTTTATATTCAGACACTATTCCTGAAG
ACGTCCTTCTTGAAAATGATCATGCAGATCTCTGTACAGACGCAGACATCCGCTCTAACGCTGAAATTAATT
ACACGTTATTGGGTTCAAGTGCAGAAAAATTCAACTAAATCCAGACACAGGTGAAGTGAACGTCACACCCCCC
TTGATCGTGAGGAGCAAGCTGTTTATCATCTTCTGTCAGGGCCACAGATGGAGGAGGAAGATTCTGCCAAGCCA
GTATTGTGCTCACGCTAGAAGATGTGAACGATAACGCCCCGAATTCTCTGCCGATCCTTATGCCATCACCGTGT
TTGAAAACACAGAGCCGGGAACGCTGCTGACAAGAGTGCAGGCCACAGATGCCGACGCAGGATTAATTCGGAAGA
TTTTTACTCACTGATTGACTCTGCTGATGGGCAGTTCTCCATTAACGAATTATCTGGAATTATTCAGTTAGAAA
AACCTTTGGACAGAGAACTCCAGGCAGTATACCCCTCTCTTTGAAAGCTGTGGATCAAGGCTTGCCAAGGAGGC
TGACTGCCACTGGCACTGTGATTGTATCAGTTCTTGACATAAATGACAACCCCTGTGTTTGTAGTACCGTGAAT
ATGGTGCCACCGTGTCTGAGGACATTCTTGTGGAAGTGAAGTTCTTCAAGTGTATGCAGCAAGTCGGGATATTG
AAGCAAATGCAGAAATCACCTACTCAATAATAAGTGGAAATGAACATGGGAAATTCAGCATAGATTCTAAACAG
GGGCCGTATTTATCATTGAGAACTCTGGATTATGAGAGCTCTCATGAGTATTACCTAACAGTAGAGGCCACTGATG
GAGGCACGCCCTTCACTGAGCGACGTTGCCACTGTGAACGTTAATGTAACAGATATCAACGATAATACCCCTGTGT
TCAGCCAAGACACCTACAGCAGTCATCAGTGAAGATGCCGTTCTTGAGCAGTCTGTATCACGTTATGGCCG
ATGATGCCGATGGACCTTCCAACAGCCACATCCACTACTCAATTATAGATGGCAACCAAGGAAGCTCGTTCACAA
TTGACCCCGTCAGGGGAGAAGTCAAAGTGACCAAACTTCTCGACCGAGAAACGATTTTCAGGTTACACGCTCACGG
TTCAAGCTTCTGATAATGGCAGTCCACCCAGAGTCAACACGACGACCGTGAACATCGATGTGTCCGATGTCAATG
ACAACGCGCCCGTCTTCTCCAGGGGAACTACAGTGTCTATTATCCAGGAAAAAAGCCAGTGGGCTTCAGCGTGC
TGCAGCTGGTAGTAACAGATGAGGATTCTTCCATAACGGTCCACCCCTTCTTTTACTATTGTAACCTGGAAATG
ATGAGAAGGCTTTTGAAGTTAACCCGCAAGGAGTCTCTGACATCATCTGCCATCAAGAGGAAGGAGAAAGATC
ATTACTTACTGCAGGTGAAGGTGGCAGATAATGGAAGCCTCAGTTGTCTATCTTTGACATACATTGACATTAGGG

1655/6881
FIGURE 1530D

TAATTGAGGAGAGCATCTATCCGCCTGCGATTTTGCCCTGGAGATTTTCATCACCTCTTCTGGAGAAGAATACT
CAGGTGGCGTCATTGGGAAGATCCATGCCACAGACCAGGACGTGTATGATACTCTAACCTACAGTCTCGACCCCTC
AGATGGACAACCTGTTCTCTGTTTCCAGCACAGGGGGCAAGCTGATAGCACACAAAAAGCTAGACATAGGGCAAT
ACCTTCTCAATGTCTAGCGTAACAGATGGGAAGTTCACGACGGTGGCCGACATCACAGTGCATATCAGACAAGTCA
CACAGGAGATGTTGAACCACACCATCGCGATCCGCTTTGCCAACCTCACTCCGGAAGAATTTCGTTGGTGACTACT
GGCGCAACTTCCAGCGAGCTTTACGGAACATCCTGGGTGTGAGGAGGAACGACATACAGATTGTTAGTTTGCAGT
CCTCTGAACCTCACCCACATCTGGACGCTTACTTTTTGTAGAGAAACCAGGTAGTGCTCAGATCTCAACAAAAC
AACTTCTGCACAAGATTAACTCTTCCGTGACTGACATTGAGGAAATCATTGGAGTTAGGATACTGAATGTATTCC
AGAAACTCTGCGCGGGACTGGACTGCCCTGGAAGTTCTGCGATGAAAAGGTGTCTGTGGATGAAAGTGTGATGT
CAACACACAGCACAGCCAGACTGAGTTTTGTGACTCCCCGCCACCACAGGGCAGCGGTGTCTCTGCAAAGAGG
GAAGGTGCCACCTGTCCACCATGGCTGTGAAGATGATCCGTGCCCTGAGGGATCCGAATGTGTGTCTGATCCCT
GGGAGGAGAAACACACCTGTGTCTGTCCAGCGGCAGGTTTGGTCACTGCCAGGGAGTTCATCTATGACACTGA
CTGGAACAGCTACGTGAAATACCGTCTGACGGAAATGAAAACAAATTAGAGATGAACTGACCATGAGGCTCA
GAACATATTCCACGCATGCGGTTGTCTGTATGCTCGAGGAAGTACTATAGCATCTTGAGATTTCATCATGGAA
GGCTGCAGTACAAGTTTACTGTGGAAGTGGCCCTGGAATTGTCTCTGTTTCAAGCATTGAGTCAATGATGGGC
AGTGGCACGCAGTGGCCCTGGAAGTGAATGGAACATGCTCGCTTGGTTCTAGACCAAGTTCATACTGCATCGG
GCACAGCCCCAGGGACTCTGAAAACCTGAACCTGGATAACTATGTGTTTTTGGTGGCCACATCCGTGACAGG
GAACAAGGCATGGAAGAAGTCCCTCAAGTTGGTAATGGTTTTCAGGGTTGTATGGACTCCATTTATTTGAATGGC
AGGAGCTCCCTTTAAACAGCAAACCCAGAAGCTATGCACACATCGAAGAGTCCGTGGATGTATCTCCAGGCTGCT
TCCTGACGGCCACGGAAGACTGCGCCAGCAACCCTTGCCAGAATGGAGGCGTTTGCAATCCGTACCTGCTGGAG
GTTATTACTGCAATGCAGTGCCTTGTACATAGGGACCCACTGTGAGATAAGCGTCAATCCGTGTTCTCCTCAAGC
CATGCCCTCTATGGGGGCACGTGTGTTGTGACAAACGGAGGCTTTGTTTGGCAGTGTAGAGGATTATATACTGGTC
AGAGGTGTCTAGCTTAGTCCATACTGCAAAGATGAACCTGTGAAGATGGCGGAACATGCTTTGACAGTTTGGATG
GCGCCGTTTGTCTAGTGTGATTTCGGGTTTTAGGGGAGAAAGGTGTCTAGAGTGTATCGACAGTGTCTGGAACCC
CTTGCTGACGGGGCCCTCTGTGAGAACACGCACGGCTCCTATCACTGCAACTGCAGCCAGGATACAGGGGAC
GTCACTGCGAGGATGCTGCGCCCAACAGTATGTGTCCACGCCGTGGAACATTGGGTTGGCGGAAGGAATTGGAA
TCGTTGTGTTTGTTCAGGGATATTTTTACTGGTGGTGGTGTGTTGTTCTCTGCGGTAAGATGATTAGTCGGA
AGAAGCATCAGGCTGAACCTAAAGACAAGCACCTGGGACCCGCTACGGCTTTCTTGCAAAGACCGTATTTTGATT
CCAAGCTAAATAAGAACATTTACTCAGACATACCACCCAGGTGCCTGTCCGGCCTATTTCTACACCCCGAGTA
TTCCAAGTGACTCAAGAAACAATCTGGACCGAAATTCCTTCGAAGGATCTGCTATCCAGAGCATCCCGAATTCA
GCACTTTTAACCCCGAGTCTGTGACGGGCACCGAAAAGCAGTGGCGGTCTGCAGCGTGGCGCCAAACCTGCCTC
CCCCACCCCTTCAACTCCCCTTCTGACAGCGACTCCATCCAGAAGCCTAGCTGGGACTTTGACTATGACACAA
AAGTGGTGGATCTTGATCCCTGTCTTTCCAAGAAGCCTTAGAGGAAAAGCCTTCCCAGCCATACAGTGCCCGG
AAAGCCTGTCTGAAGTGCAGTCTCTGAGCTCCTTCCAGTCCGAATCGTGCGATGACAATGGGTATCACTGGGATA
CATCAGATTGGATGCCAAGCGTTCCTCTGCCGGACATACAAGAGTTCCCCAACTATGAGGTGATTGATGAGCAGA
CACCCCTGTACTCAGCAGATCCAAACGCCATCGATACGGACTATTACCCTGGAGGCTACGACATCGAAAGTGATT
TTCTCCACCCCCAGAAGACTTCCCCGCAGCTGATGAGCTACCACCGTTACCGCCGAATTACGCAATCAGTTTG
AATCCATCCACCCTCCTAGAGACATGCCCTGCCGCGGTAGCTTGGGTTCTTCATCAAGAAACCGGCAGAGGTTCA
ACTTGAATCAGTATTTGCCCAATTTTTATCCCCTCGATATGTCTGAACCTCAAACAAAAGGCACTGGTGAGAATA
GTACTTGTAGAGAACCCCATGCCCCCTTACCGCCAGGGTATCAAAGACACTTCGAGGCGCCCGCTGTGAGAGCA
TGCCCATGTCTGTGTACGCTCCACCGCCTCTGCTCTGACGTGTGAGCCTGCTGCGAAGTGGAGTCCGAGGTCA
TGATGAGTGACTATGAGAGCGGGGACGACGGCCACTTCGAAGAGGTGACGATCCCGCCCTGGATTCCCAGCAGC
ACACGGAAGTCTGACTCTCAACTCCCCCAAGTGCCTGACTTTAGTGAACCTAGAGGTGATGTGAGTAATCCGC
GCTGTTCTTTGACAGAGTGTCTCCAAGCTTTTTTGGTGAGCCGAATGGGCATGGCTGCGCTGGATCCTGCGCCT
CTGGACGTGTAGCCATTTCCAGTGTCCCAACTACTGTCTGAGGTTTTTCATCGGCTGTGCCATTTCCCAAC
GTCTTTTGGGATTTACATCTGTCTGTGTTAAATAATCAAACGAAAAATCAGTCTGTGTTGTGACGATGATTCA
TGTATTTATATAGATTTGATTATTTTAATTTTCTGTCTCTTTTTTTGTAAATTTTATGTACAGATTTGATTTT
TCATAGTTTTAACTAGATTTCCAAGATATTTTGTGCATTTGTTTCAACTGAATTTTGGTGGTGTGAGTCCATTA

1656/6881

FIGURE 1530E

TCTAGCACCCCTGATTTTTTTTTTTTACTATAACCAGGGTTTCATTCTGTCTTTTCCACTGAAGTGTGACATTT
TGTTAGTACATTTTCAGTGTAGTCATTCATTTCTAGCTGTACATAGGATGAAGGAGAGATCAGATACATGAACATG
TCTTACATGGGTGCTGTATTTAGAATTATAAACATTTTTCATTATTGGAAAGTGTAAACGGGGACCTTCTGCATA
CCTGTTTGAACCAAAACCACCATGACACAGTTTTTATAGTGTCTGTATATTTGTGATGCAATGGTCTTGTAAG
GTTTTTAATGAAACTACCATTAGCCAGTCTTTCTTACTGACAATAAATTATTAATAAAAT

1657/6881
FIGURE 1531

GGGGCGCTGCCCCGGTGGCTCTGGCCCCGCCGGGCCGTTGGCCCCAGCCCGCCGGCCCCCTGAGCTCCGGTAGCCCCG
CGCTGGAGAAGCTGTTTCGCCCGGGGCGGGCCCTTGCGGACCTTCCTCGAGCGCCAGGCGGGGTCTGAAGCCCATT
TGAAGGTCAGGAGGCCCCGAGTTGCTGGCGGTGATCAAACCTGCTGAACGAGAAGGAGCAGGAGCTGCGGGAGACTG
AGCACTTGCTGCACGATGAGAATGAAGGTTTAAGGAACTTGACAGAGAATGAAATCACTTTGTGTCAAAAAGAAA
TAACTCAGCTGAAGCATCAGATTATCTTACTTTTGGTTCCCTCAGAAGAAACAGATGAAAATGATTTGATCCTGG
AAGTAACTGCAGGAGTTGGAGGTCAGGAGGCAATGTTGTTTACATCAGAGATATTTGATATGTATCAGCAATATG
CTGCATTTAAAAGATGGCATTTTGAAACCCTGGAATATTTTCCAAGTGAAGTAGGTGGCCTTAGACATGCATCTG
CCAGCATTGGGGGTTTCAAGCCTATAGGCACATGAAATTTGAAGGAGGTGTTTACAGAGTACAAAGAGTGCCAA
AGACAGAAAAGCAAGGCTGCGTCCATACTAGCACCATGACTGTAGCAATATTACCCAGCCTACTGAGATTAATC
TGGTGATTAATCCGAAAGATTGAGAATTGACACTAAGCGAGCCAGTGGAGCTGGGGAGCAGCATGTAAATACCA
CGGACAGTGCTGTCCGGATAGTTCATCTTCCAACAGGTGTTGTTTCTGAATGTCAACAAGAGAGATCTCAGCTGA
AAAATAAAGAGCTGGCTATGACAAAGTTACGTGCAAACTGTACAGCATGCATGTAGAAGAAGAAATAAATAAAA
GACAGAATGCTAGAAAAATTCAGATTGGAAGTAAAGGAAGATCAGAGAAAATAAGAACATATAATTTCCACAGA
ACCGGGTCACAGATCACAGAATAACAAGACGCTGCATGATCTTGAACTTTTATGCAAGGAGATTATCTACTGG
ATGAACTTGTACAGTCATTGAAGGAATACGCCAATTATGAATCTTTAGTAGAAATTATTTCCAAAAAGTTTAA

1658/6881

FIGURE 1532

ATGCCGCTGCGGGTTTTTGCGGCTTTCTGCCCCCGCCGCGGGCTTTCTGACCTGGCCTCGCCGAATTTAGCC
CCTGCCGTCACGGCTTTTTGGGGCTCTTTGCCCTCGCCGCGCGGGCTTTTGCCGCGCAGCTTTTGCATCTTT
CTCCCCCTGCCTCCGTGGCTTTTTGCCCCTGAAGCCACAGCTTTTGGCCCTCGCCGCGCGGGCTTTTGCGACCT
TTTCCCCCTGCTGCCGCGAGCTTTTTGCCCCACCACCGCGAATTTTCTGCCGCGGGCTTTTGTACCGCCGCC
GTGGCTTTTTTAIGGCTTTTGGCCCCCGGTTTTTCCCGCCGCGGGCTTCTGCCCCGCAGCCCCGGCTTTTGCGGC
TTTTTGCCGCGGTGGCTTTTGGCCCCCGCCACTGTGGCTTTTACGCCCTTTTCGCCCCCGCCGCGCAGGTTTTT
CCAGCCGCGGGCTTCTGCCCCACTGCCCGGGCTTTTGTGTGCTTTTCCCCCGCCGCGCGGGCTTTTGTGTC
TATTTGTCCCTGCCACCACAGCTTTTGGCCCCCGCCGCGGGCTCCTTCCCCCTACGTGGCTTCTGTCCCCG
CCTCCGCGGGCTTTTATCACCCAGCCGCTTTTGGCCCCCGCCGCGGCTTTTGTCTCTGCCGCCGAGGGTT
TTTGCGCTTCATGTCCCAACCGTCGTGGCTTTTGGCGCCCTGCTTTTGGCCCTCTGACGCGGCTTTTGC
GGCTTTTTTACCACCTCCACCGTGGCTTTTGGCGCTTTTGGCACCGGACGCCATGGCTTTTTCAGGCTTTTGC
CCGCGCCACGGCTTTTGTGCGCCACACCGTTTAGCCCCACCGCGCTTTTGCACCCGCGAGCCGCATCTT
TTTGCCGCGCGACTTCTTACCCCGCCACCGCGGTTTTTACCGCTGAGGCTTTTTCACCCGCGCTCGCGGGTTT
TTGCCCCACCGCGGTGGCTTTTGGCCCCACCGCGCGGGTCTGAGGGCGGGATTGGCAGACTCGGCTGCTAGA
TCTACCGGCGTCTTGGCTAAGGCAGCGCCGACGGTCACTCTGCTCCAGCTCTCCTGGTTGCGGGGCTGCATAGA
GCAGCGCCAAGCTCGGCCCCGATGGGAGAGAAGAAGGAGAGCGGTGGAGGGGGTGACGCGGCTATTGCGGAGGGA
GGCGCAGGGGCCGAGCCAGCCGGGTGCTGCAGCAGTGGGGCAGCTCCAGAAGCTCATTGGCATCTCCTTTGGC
AGCCTGCGTTGGCTGCGACCAAGTGGCTGAGTCCAAAGACCTCACCCAGCAGGAGATACGGACCGTGCAGGAT
GAGTCCGAGGGGCTCCTAGGCACAGAGGGGGCCCTGGAGGAAGAAGAGGATGGAGAGGAGCTCATTGGAGATGGC
ATGGAAAGGTAA

1659/6881
FIGURE 1533

ATGGATGAGGACAGCTGTGTCAATGCCAGGCCACGGGAACCTCCACTTGCTAAACAGAATGTTATCCCGGAAATC
TGTGCCCTTCTCTGTATGCCTCTTGTCCCTTTTTTCACTGCCCTATTTCAGTAACTTCACAAATATATAATGAGCAC
CTGCCAAGAACCATGTTCAGGCCTGGGGCAACAAACAGCCCCTGCTGTCAAGGAACCCGCAGGCTTGTGGGGCCGT
CATGCTATCAAAGGCAGCTCCAAGAGAGACAGTGGGATGAGTGTCAAACAGATGTTTCAGCCAAGTATGGCAGG
AGCTCAGAGGAGGCCTCATCACTTGTTCCTGGGACAGACGTCTGGCTGGTCTGCCACCTCCCACCCAGCCCT
CCCTGTGCGCTGCTGCCAGAATGTCTTCCTGAACACAGCTATGACTGGGCCTACTGGCCTTGGCTGTTTGATCTA
AGCAGAGGCCTAACTGAGACTGAACTAAGCATTTCCTCTCCAGGAATTGGAATTTTGAACCACGAATGAGC
ACCTCTGCAGCCAAGGCCCATGAGCAATGGCACCCCTGGAGGAGAAGCCCAAGAAGCAGACCTGGTTCCAGCCCT
TTCACCGCCCGGGGTGCCACGGCCCTTTCAACGTGTATGGCAGGAGGTGTGCAGGGCATTTCAGGAGGCCTCCTGG
CTGGCACTCGACCAATTAGTCATTCAACGCCAGGTCTGGGGCTGCTGTCTGTTGTCTCAAAGCCCATTCTGTGAA
CACATGGTAGAGTCTCCAACCTGTTCCAGATGTCCAACCTGGTCTGCGGCACTGATGGGCTCACATATACGAAT
GAATGCCAGCTCTGCTTGGCCCCGATCCTGTTTGAATTCTTCGGCCAAGTGAGGTACAGACCAGGGCCCTATGAA
CACCTGCAAGCAAGACAGCCACGCAGTTGTGGGTACCTTGGAAGAATATTGGAGAATGCAAGAGAGAACAGGGC
AGCAGTGAACCAGTTGTCCAAGACCTGGCCCAGGTTGTTGAAGAGGTCATAGGGGTTCCACAGTCTTTTCAGAAA
CTCATATTTAAGGTTTTACTATGCCCCAAACAGAAATCCTGATGGGAAAGGAAAATGCCTTGCTATATCTGTAATT
TATCAACATGAAAACATTACGGTTTTAATCATAAAATTCAAGAGATTTAACTTGTGTTGCCATCAGTTCTCCACCA
AGGAAAGATAAGTTGATATTGCCAGCCTTTCATGAGCTTCCTCCTAACAGTAGGCTTATCGCCTTTGCACATTCC
TATAGCAGAGAACATAGATCTGACTGCCTTAAGGGATACCAATTCCTCTCTCTTCAAATTCATCCTCAGT
GGGCAACAGAAGCCAGAAAATCCTGCCAAAACCTTTCATCTGGTCAGGGAGTGGAGGCCGTGCTGTGCGCGCC
CTCTTGCGGGAGCCACCAGGCAAGCATCTTAAGAGGGGCAAGCGGAAAAGGGTGTCTGTGGATCTGCCCTGTTCT
GGTGGTTTCAGGCAGCCCTGCTTTCTCCCGCCTGGCAGTCAGCAGGGGGGAGAGTCACTCAGAGCAAGATGGA
GAGCCTTAG

1660/6881
FIGURE 1534

CAGAAGAAGCCCTTTGAGGAGCACTGGAGGAAGCACACCCTGTCCCTATGTGGACGTTGGCACTGGGAAGTGCACA
GCCAGAGAACAACACATCACACACAGGAAACAGTTGTGCTCATGTGATGGGGGCTCAGCACTAGGAAGGAGTGG
ACTATTGGCACACGCAGCAGCTTGAATAAATCTGAAAGTCACTATGCTGTGTAAGAGAAGCCAAATTTAAAAAGT
GCATGCTGTGTACAGAGGGTGTCAAGAATGCCCTCCTACGTGACGGAAAGCAGATCCGTGGTTGCCTGCAGACTGG
CAGGAGCAGATTCCAAAGGCACAGGAAGAAGCTTGTGGGTAGAATGTGTTTATTACCTTCTGTGCATTATACCAT
AAAAAAGCTGGTCACAAAAATGCAAAACAAAAACAAAGGTGAACTAGGATAAGATTCTCACCTGTGTGATTGG
TAAACGTGCAGATGTGCCGTATGCTTTGTTTTATGAAGCTGTGGGATACAAGGACTCTCATACGTCACTGTGGAA
TGCAGAAATATTGCAGCCTCATGGAAGAGGATTTGGCAGCGTCTAACAAAACCTACATGGCATTGCCCCCTTGACTC
AGCAATTCTAGAATCTGCCTCAAAAAAACTCCAGCAAAGAAATGAAAGGACTTTAGGCACAGAGTTCTTTTCACA
GCCTGCATGTGTTTGAACAAAGTTCTTCACTGTGGCGTTTGTAAATGTGGGGAAAAGAGAGATCAGGCTGGTAC
TGTGCTCTGTGTAGAAAAGGAGGACGTAAGAACTCCATTTTGATCTGTACCCCGAGCGATTGTTTTGCCCTGAGA
TGCTGTTAATCTGTAACTTTAGCCTCAGCCTTGAGCTCACAGAAACCTGTGTTGTATGGAATCAAGGTTTCAGGG
ATCTAGGGCTGTGCAGGACGTGCCTTGTTAAGAAAATGCTTACAGGCAGTACGCTTGGTAAAAGTTATCGCCATT
CTCCATTCTCGATAAACCAGGGGCACAATGCACTGCGGAAAGCCGAGGGACCTCTGCCCAGGAAAGCCGGGTAC
CATCCAAGGTTTCTCCCCACTGAGATATGGCCTTGTTGGGATGGGAAAGACCTGACCATCCACCAGCCCGACACC
GTGAAGGATCTGTGCTGAGTAGGATTAGTAAAAGAGGAAGSCCTCTGTCTCCTGCCTTCCCCTGGGAACGGAATG
TCTCAGTATAAACTGATCGTACATTGTTCAATTCTGAGATAGGAGAAAACACCCTGTGGTGGGAGGCGAGA
CATGTTGGCCGCAATGCTGCTGTACTCTTTACTCCACTGAAATGTTTGGGTGGAGAGAAGCATAAATCTGCCT
ACGTGCACATCTAGACATAGTACCTTCCCTTGAACCTACTTGTGACACAGATTCTTTGCTCACATGTTTCTTG
CTGACCTTCTCCCCACTGTCACCCTGTTCTCCTGCCACATTCTTCTGCTGAGATAGTAAAAATAGTAATCAATA
AATACTGAGGGAACCTCAGAGACCGGTGCCAGTGCGGGTCTCTGTATGCTGAGCGCCAGTCCCCTGGGCCCACTT
TTCTTTCTCT

1661/6881
FIGURE 1535

AATAAAGAAATAGTGCTTTAAGTCAATGAATTCCTCCTTGGGACCCACTATCGAGAACTATCAGTGGTAACGTT
TTAAAAATGACAAATTCATCTGCTCTTGACTTGTGTGTCCTAAGATTTCCACTAAGTGTCTTCAAACCTCCCC
CTCCCCGGCTTCTTGATAATAGAAGTTCCCGAAGGCCGCCGATTCCAGAAGATACTGTCTGGCGTGAAATTAGT
CTCAGTAGAAAACATAAGTCCCGCGCTCTTGCTGCTGCGCTGCGCAAGCTTTTGGGCCCTCCCGAGAAAGGGAAG
TGCATTCTCGCTTCCGTAGCGGTCTCCGCCGGTTGGGGGGAAGTAATTCCGGTTGTTGCACCATGGCGTCCATGG
GGACCCTCGCCTTCGATGAATATGGGCGCCCTTTCCTCATCATCAAGGATCAGGACCGCAAGTCCCGTCTTATGG
GACTTGAGGCCCTCAAGTCTCATATAATGGCAGCAAAGGCTGTAGCAAATACAATGAGAATCACTTGGACCAA
ATGGGCTTGATAAGATGATGGTGGATAAGGATGGAGATGTGACTGTAATAATGATGGGGCCACCATCTTAAGCA
TGATGGATGTTGATCATCAGATTGCCAAGCTGATGGTGGAACTGTCCAAGTCTCAGGATGATGAAATTGGAGATG
GAACCACAGGAGTGGTTGCTTGGCTGGTGCCTTGTTAGAAGAAGCGGAGCAATTGCTAGACCGAGGCATTACCC
CAATCAGAAATAGCCGATGGCTATGAGCAGGCTGCTCGTGTGCTATTGAACACCTGGACAAGATCAGCGATAGCG
TCCTTGTGACATAAAGGACACCGAACCCCTGATTAGACAGCAAAAACACGCTGGGCTCCAAAGTGGTCAACA
GTTGTCACCGACAGATGGCTGAGATTGCTGTGAATGCCGTCTCACTGTAGCAGATATGGAGCGGAGAGACGTTG
ACTTTGAGCTTATCAAAGTAGAAGGCAAAGTGGGCGGCAGGCTGGAGGACACTAACTGATTAAGGGCGTGATTG
TGGACAAGGATTTAGTCACCCACAGATGCCAAAAAAGTGGAGATGCGAAGATTGCAATTCTCATATGTCCAT
TTGAACCACCCAAACCAAAACAAAGCATAAGCTGGATGTGACCTCTGTGCAAGATTATAAAGCCCTTCAGAAAT
ACGAAAAGGAGAAATTTGAAGAGATGATTCAACAAATTAAAGAGACTGGTGCTAACCTAGCAATTTGTCAGTGGG
GCTTTGATGATGAAGCAAATCACTTACTTCTTCAGAACAACTTGCCTGCGGTTGCTGGGTAGGAGGACCTGAAA
TTGAGCTGATTGCCATCGCAACAGGAGGGCGGATCGTCCCAGGTTCTCAGAGCTCACAGCCGAGAAGCTGGGCT
TTGCTGGTCTTGTACAGGAGATCTCATTGGGACAACCTAAGGATAAAATGCTGGTTCATCGAGCAGTGAAGAAT
CCAGAGCTGTAACCATTTTTATTAGAGGAGGAAATAAGATGATCATTGAGGAGGCGAAACGATCCCTTCACGATG
CTTTGTGTGTCATCCGAACCTCATCCGCGATAATCGTGTGGTGTATGGAGGAGGGGCTGCTGAGATATCCTGTG
CCCTGGCAGTTAGCCAAGAGGCGGATAAGTGCCCCACCTTAGAACAGTATGCCATGAGAGCGTTTGCCGACGCAC
TGGAGGTCATCCCCATGGCCCTCTCTGAAAACAGTGGCATGAATCCCATCCAGACTATGACCGAAGTCCGAGCCA
GACAGGTGAAGGAGATGAACCTGCTCTTGGCATCGACTGTTTGCACAAGGGGACAAATGATATGAAGCAACAGC
ATGTCATAGAAACCTTGATTGGCAAAAAGCAACAGATATCTCTTGCAACACAAATGGTTAGAATGATTTGAAGA
TTGATGACATTGTAAGCCTGGAGAATCTGAAGAATGAAGACATTGAGAAAACCTATGTAGCAAGATCCACTTCTG
TGATTAAGTAAATGGATGTCTCGTGATGCATCTACAGTTATTTATTGTTACATCCTTTTCCAGACACTGTAGATG
CTATAATAAAAAATAGCTGTTTGGTAACCATAGTTTCACTTGTTCAAAGCTGTGTAATCGTGGGGGTACCATCTCA
ACTGCTTTTGTATTTCATTGTATTAAAGAATCTGTTTAAACAACCTTTATCTTCTCTTCGGGTTTAAGAAACGTT
TATTGTAACAGTAATTAAATGCTGCCTTAATTG

1662/6881
FIGURE 1536

MASMGTLAFDEYGRPFLLIKDQDRKSRLMGLEALKSHIMAAKAVANTMRTSLGPNGLDKMMVDDKGDVTVTNDGA
TILSMDVDHQAIAKLMVELSKSQDDEIGDGTGTVVVLGALLLEEAEQLLDRIHPRIADGYEQAAARVAIEHLDK
ISDSVLVDIKDTEPLIQTAKTTLGSKVVNSCHRMMAEIAVNAVLTVADMERRDVDFELIKVEGKVGGRLDTKLI
KGVIVDKDFSHPMPPKVEDAKIAILTCPFEPKPKTKHKLDVTSVEDYKALQKYEEKFEEMIQQIKETGANLA
ICQWGFDDDEANHLLQNNLPAVRWVGPEIELIAIATGGRIVPRFSELTAEKLGFAGLVQEISFGTTDKMLVIE
QCKNSRAVTIFIRGGNKMIIIEAKRSLHDALCVIRNLIRDNRVYGGGAAEISALAVSQEADKCPTLEQYAMRA
FADALEVIPMALSENSGMNPIQTMTEVRARQVKEMNPALGIDCLHKGTDNDMKQHVITLIGKKQQISLATQMVR
MILKIDDIRKPGSEEE

1663/6881
FIGURE 1537

GTATCTGTCCGGACGGAAGCAGGAAGCGGGAGCGTAGGGCCACGCCTGCGGCGCTGCTGGTTGAGGCTGTGTGGG
TCGGGGACGGGCGGAGGCGATGGCGGAGAAGTTTGACCACCTAGAGGAGCACCTGGAGAAGTTCGTGGAGAACAT
TCGGCAGCTCGGCATCATCGTCAGTGACTTCCAGCCCAGCAGCCAGGCCGGGCTCAACCAAAAGCTGAATTTTAT
TGTTACTGGCTTACAGGATATTGACAAGTGCAGACAGCAGCTTCATGATATTACTGTACCGTTAGAAGTTTTTGA
ATATATAGATCAAGGTCGAAATCCCCAGCTCTACACCAAAGAGTGCCTGGAGAGGGCTCTAGCTAAAAATGAGCA
AGTTAAAGGCAAGATCGACACCATGAAGAAATTTAAAGCCTGTTGATTCAAGAACTTTCTAAAGTATTTCCGGA
AGACATGGCTAAGTATCGAAGCATCCGGGGGGAGGATCACCCGCCCTTCTTAAACCAGCTCACCCCTCCCTGTGTGAA
GATCCCCCGGGACTGCGATGCGGCGTGAGGCTGGGACTGCGAGTGCTGACGCCACCTTCCTGCTGAGGTGGGACT
GGGCCCTGGACACACCCCTCAGCCCCCTCTGTCCTCATTGTTTGGCCTCATGGGACCGAGGGGCTGGAGGAGAGGC
GGAGCTGTGCCCCAGCTGTTCCAGCAGCTTGTCTGGCGTCAACTGGCTTTCAGAGTGCTGACCCCTCATCACTGT
GGGGATCATTCTCTCTGAGGGCAGATGAGGCGCAGGAAAATAGTCTTGGAATGTAAATATGATGGGTAAATTA
AAAGTTTTACAACATTCTACCTAATATTTTCTTTTAACATACTTTTTCTGTTCTATTGTATTATGGTGTCCGAA
AGCTAAATAACGACTAGGAAAAATTTTTTAAAAAAGAAAAATCAGTTTAAATGTGGGAAGTACTTAAGTGGTAT
TATATTTTACATTTTCAAGTATAGTGATATAAAGAATGTTTAAATGTAAGTGTTCATGGATTTCATTTAGACA
TGCCTATAATAAACTAAGTATGTGGCTTATTCCATGTAATTATTTTGTAAATATAATAAATGTGTCTTGT

1664/6881
FIGURE 1538

MAEKFDHLEEHLEKFVENIRQLGIIVSDFQPSSQAGLNQKLNFIIVTGLQDIDKCRQQLHDITVPLEVFHEYIDQGR
NPQLYTKECLERALAKNEQVKGKIDTMKKFKSLLIQELSKVFPEDMAKYRSIRGEDHPPS

1665/6881
FIGURE 1539

GGGATTTGTTATTGCGAATGATGTGGACAACAAGCGCTGCTACCTGCTCGTCCATCAAGCCAAGAGGCTGAGCAG
CCCCTGCATCATGGTGGTCAACCATGATGCCTCCAGCATACCCAGGCTCCAGATAGATGTGGACGGCAGGAAAGA
GATCCTCTTCTATGATCGAATTTTATGTGATGTCCCTTGCACTGGAGACGGCACTATGAGAAAAACATTGATGT
TTGGAAAAAGTGGACCACCTTAAATAGCTTGCGACTACATGGCTTACAGCTGCGGATTGCAACACGCGGGGCTGA
ACAGCTGGCTGAAGGTGGAAGGATGGTGTATTCCACGTGTTCACTAAACCCTATTGAGGATGAAGCAGTCATAGC
ATCTTTACTGGA AAAAGTGAAGGTGCTTTGGAGCTTGCTGATGTGTCTAATGAACTGCCAGGGCTGAAGTGGAT
GCCTGGAATCACACAGTGGAAAGTAATGACGAAAGATGGGCAGTGGTTTACAGACTGGGACGCTGTTCCTCACAG
CAGACACACCCAGATCCGACCTACCATGTTCCCTCCGAAGGACCCAGAAAAGCTGCAGGCCATGCACCTGGAGCG
ATGCCTTAGGATATTACCCCATCATCAGAATACTGGAGGGTTTTTGTGGCAGTATTGGTGAAAAATCTTCAAT
GCCGTGGAATAACGTCAGCCAAAGCTTCAGGGTAAATCTGCAGAGACCAGAGAAAGCACACAGCTGAGCCCTGC
AGATCTCACAGAAGGGAAACCCACAGATCCCTCTAAGCTGGAAGTCCGTCATTACAGGAAGTGGTGACACAGA
AATAGCTCATGCAACTGAGGATTTAGAGAATAATGGCAGTAAGAAAGATGGCGTGTGTGGTCTCTCCATCAA
GAAAATGAAGTTATTTGGATTTAAAGAAGATCCATTTGTATTTATCTCTGAAGATGACCCATTATTTCCACCTAT
TGAGAAATTTTATGCTTTGGATCCTTCATTCCCAAGGATGAATTTGTTAACTCGGACTACAGAAGGGAAGAAAAG
GCAGCTCTACATGGTTTCTAAGGAGTTGCGGAATGTGCTGCTGAATAACAGTGAGAAGATGAAGGTTATTAACAC
GGGGATCAAAGTCTGGTGTAGAAATAACAGCGGTGAAGAGTTTGACTGTGCTTTCCGGCTGGCACAGGAGGGAAT
ATATACATTGTATCCATTTATTAAGTCAAGAATTATTACTGTATCAATGGAAGATGTTAAGATACTGTTGACCCA
GGAAAATCCCTTTTTTAGAAAACCTCAGCAGTGAGACCTACAGTCAAGCAAAGGACCTGGCAAAGGGAAGCATCGT
GCTGAAGTATGAACCAGATTCTGCGAATCCAGACGCTCTGCAGTGTCCCATCGTCTTATGCGGATGGCGGGGAAA
GGCCTCCATTGCAACTTTTTGTGCCAAGAATGAACGGCTTCATTATCTCAGGATGATGGGGCTGGAGGTATTGGG
AGAAAAGAAGAAGGAAGGGGTTATCCTCACAAATGAGAGTGCAGCCAGCACCGGACAGCCAGACAATGACGTGAC
TGAGGGACAGAGAGCAGGAGAGCCCAACAGCCAGATGCAGAAGAGGCCAACAGTCCAGACGTGACAGCAGGCTG
TGACCCGGCGGGGTCCATCCACCCGGTGAGCAGGCCCAAGGCAGCGGGGGCCACACCCCTCACACGCAAAAC
TGGCTTCTTCTGGTCACTGGTGTCTGAAACCAATCCAGAGCAGCCTGTGGCCTGTAAAGCATATATTTCTAATG
ACTGCAGACTGGTGGGATCATAGGAGCCTTCTGAATGACCAGGACTGCTTCTTTGGAGCTGATGAAATGTACT
CTTTTAGCGTGTAGAAATCACTTGTTTTATTTGTTTCTTTGGCCAAGCTGGGTCTAGTGTCTTTTGTGCTGGG
AATAGACTTTCAAAGTTGTACTTCTATCAAGAAACAAAACCTGCCCTTGCAAGAAATTCAGGTCTTTTGTAAAGC
CTGTATTGGTCTTAAGGTGCAGTATTTTTAAATTATTATTTATAGAAAGAAATCTATAAATCTTGGGGAAGTGT
GTTATAAGCTTTAATAATTACATTGAGCTGCACCTCAGTGGTGTGTCATTAAACATGCAGTGGGGTTAATATCTGA
GGCCTCAGATGACTTTGTGCCTTTTGGAAATAAAGGTTAAATAAACTCTCCAGAGTAAGAGCTGTATCGTGAAT
TGTCACTAATTTATGAGGGGACTTATGTGCTTTTATGAATGGAGTGCTTTACAATTTTTATTTTAAATGG
GTTTGGGATCCTTGGAAATTTCAATAAAATGATAAAATAT

1666/6881
FIGURE 1540

TCCTGCTTCGCCCTCCCAGCGCCTAGAAGCCTGCAGCTCCGGAGCAGTGGCCGCGCCACGCCGGCCCCAGCGCGC
AGAACCCTGCAGGCCCCGCCGTCCGCCCCGGGCGCGCCGCCATGTCTACCCGCAGTTTGGATACCCCTACT
CCTCGGCTCCCCAGTTCTTGATGGCCACCACTCCCTGAGCACGTGCTGCGAGTCCGGAGGCCGCACGCTGGCGG
ACTCCGGGCCCCGCCCTCGGCCCAGGCGCGGTCTACTGCCCGGTCTACGAGAGCCGGCTGCTGGCCACCGCGC
GCCACGAGCTCAACTCGGCCGCGGCGCTGGGCGTCTATGGGGGTCCCTATGGCGGATCGCAGGGCTATGGCAACT
ACGTGACCTACGGCTCGGAGGCGTCCGCCTTCTACTCGCTGAACAGCTTTGATTCCAAGGATGGTTCGGGATCTG
CGCATGGGGGCTGGCACCAGCCGCTGCCGCCTACTACCTTACGAGCCAGCTCTGGGCCAGTACCCCTATGACA
GGTATGGAACCATGGACAGCGGCACGCGGCGCAAGAAGCCACGCGCGAGACCACCAGCAGGCTCAAGGCCTGGC
TGCAGGAGCACCAGCAAGAACCCTACCCACCAAGGGCGAGAAGATCATGCTGGCCATCATCACCAGATGACCC
TCACACAGGTCTCCACCTGGTTCGCCAACGCGCGCCGCGCCTCAAGAAGGAGAACAGATGACGTGGCCGCGC
GGAACAAGTGGCGCAGACGAGAAGCGGCCCTACGCGGAGGGCGAGGAGGAGGGGGCGAGGAGGAGCGCGG
AGGAGCCCCCTCAAGAGCTCCAAGAAGCAGAGCCCGTGGGCAAGAGGAGAAGGAGCTGGAGCTTAGTGACTTGG
ACGACTTCGACCCGCTGGAAGCAGAGCCGCGGCGTGCAGCTGAAGCCGCCCTTCCACTCCCTGGACGGCGGT
TGGAGCGCTCCCCGCGCGCCGACGGCCCGGTCAAGGAGGCTCAGGCGCGCTCCGGATGTCTCTGGCCGCGG
GTGGCGGAGCTGCTCTGGACGAGGACCTGGAGAGGGCCCGAGCTGTCTCCGACGCGCGCGCGCGCGCGGAGC
CACTGCCGGGCGCAGAGGGCGGCCCTCAGGTCTGCGAGGCCAAGCTGGGGTTTGTGCCGGCGGGGCGCTCGGCAG
GCCTGGAGGCTAAGCCGCGCATCTGGTCCCTGGCCACACAGCCACCGCCGCCCGCGCCGCCACCTCCCTGA
GCCAGACTGAGTTTCCGTCTGTCATGCTCAAGCGCCAAGTCCCGCGGCCCTGCGGCTGTGTCTCCGCGCCCG
CCACGTCCCCGTCTGTGGCCCTTCCCCACTCTGGCGCCCTGGACAGGCACAGGACTCCCCGGTAACCACTCTCA
GAAACTGGGTGGACGGGGTCTTCCACGACCCCATCCTCAGGCACAGCACTTTGAACCAGGCCTGGGCCACCGCCA
AGGGCGCCCTCCTGGACCCCGGGCCTCTGGGACGCTCGCTGGGGGCGGGCGCAACGTGCTGACTGCACCCCTGG
CCCGCGCCTTTCCGCCTGCCGTGCCCCAGGACGCCCGAGCTGCAGGCGCCGCCAGGGAGCTGCTCGCCCTGCCCA
AGGCCGGCGGCAACCCCTTCTGCGCCTGAGGCGGGCGGGTCCCGAGCCCAGGAGGGAACCCGCGCTCAGGCGGAC
GGCGCCGACTCTTTTCACTGAGTTTCCAGAGGAAGACTAGCGCGGCCACCGCAAGCCGCCAACCCACCGGAGAG
GGGGCTTCTGAACTTGGACTCCTGGGAACATGGACAAGCCGCGCTGCCACGCCGGGGCTCCACCGCCTGGGC
CTGAGCCTGACCGGGCCATTCCCAAATTTGGGACGCGGAAGGAGAGGCTCTCGGAGCAGAAGAGGCCAGATACCC
TGAAGCATAAAGTTTACGTCAAAAAGTTTACATGGAGAAGGCGGTTCCGTTCTGAAGCGTGGTCTGCTGTCCCCTG
GGCGTGAGGCCTCCTGGGCCTGTGCGGCCTCCGATTTTCATCCTCAGCACGTAATGCTCACCAACAGCACTTGAC
TGAGTTGACTCTTGACACTCTTGACTCCATAATATGATGCTTTTTAAGATGTATGTTACACCAATAATTGCCT
GCTTCAGAGGCTAATATAACAAAACCAATAAAACCGAG

1667/6881
FIGURE 1541

GACTGCGCGCGGCAACAGCAGACATGTCGGGGGTCCGGGGCCTGTCGCGGCTGCTGAGCGCTCGGCGCCTGGCG
CTGGCCAAGGCGTGGCCAACAGTGTGCAAACAGGAACCCGAGGTTTTCACTTCACTGTTGATGGGAACAAGAGG
GCATCTGCTAAAGTTTCAGATTCCATTTCTGCTCAGTATCCAGTAGTGGATCATGAATTTGATGCACTGGTGGA
GGCGCTGGAGGGGCGAGGCTTGCAGCTGCATTTGGCCTTTCTGAGGCAGGGTTTAATACAGCATGTGTTACCAAG
CTGTTTCCCTACCAGGTACACACTGTTGCAGCACAGGGAGGAATCAATGCTGCTCTGGGGAACATGGAGGAGGAC
AACTGGAGGTGSCATTTCTACGACACCGTGAAGGGCTCCGACTGGCTGGGGGACCAGGATGCCATCCACTACATG
ACGGAGCAGGCCCCCGCCCGCTGGTTCGAGCTAGAAAATTATGGCATGCCGTTTAGCAGAACTGAAGATGGGAAG
ATTTATCAGCGTGCATTTGGTGACAGAGCCTCAAGTTTGGAAAGGGCGGGCAGGCCCATCGGTGCTGCTGTGTG
GCTGATCGGACTGGCCACTCGCTATTGCACACCTTATATGGAAGGCTCTGCGATATGATACCAGCTATTTTGTG
GAGTATTTTGCCTTGGATCTCCTGATGGAGAATGGGGAGTGCCGTGGTGTCTATCGCACTGTGCATAGAGGACGGG
TCCATCCATCGCATAAGAGCAAAGAACACTGTTGTTGCCACAGGAGGCTACGGGCGCACCTACTTCAGCTGCACG
TCTGCCCACACCAGCACTGGCGACGGCACGGCCATGATCACCAGGGCAGGCCTTCTTGCCAGGACCTAGAGTTT
GTTCACTTCCACCCTACAGGCATATATGGTGTGTTGTCTCATTACGGAAGGATGTGCTGGAGAGGGCATT
CTCATTAAACAGTCAAGGCGAAAGGTTTATGGAGCGATACGCCCTGTGCGGAAGGACCTGGCGTCTAGAGATGTG
GTGTCTCGGTCCATGACTCTGGAGATCCGAGAAGGAAGAGGCTGTGGCCCTGAGAAAGATCACGTCTACCTGCAG
CTGCACCACCTACCTCCAGAGCAGCTGGCCACGCGCTGCCTGGCATTTCAGAGACAGCCATGATCTTCGCTGGC
GTGGACGTACGAAGGAGCCGATCCCTGTCTCCCCACCGTGCATTATAACATGGGCGGCATTCCCACCAACTAC
AAGGGGCGAGTCTGAGGCACGTGAATGGCCAGGATCAGATTGTGCGCGCCTGTACGCCTGTGGGGAGGCGCC
TGTGCCTCGGTACATGGTGCCAACCGCCTCGGGGCAAACCTCGCTCTTGACCTGGTTGTCTTTGGTGGGCATGT
GCCCTGAGCATCGAAGAGTCATGCAGGCCTGGAGATAAAGTCCCTCCAATTAAACCAAACGCTGGGGAAGAATCT
GTCATGAATCTTGACAAATTGAGATTGCTGATGGAAGCATAAGAACATCGGAACCTGCGACTCAGCATGCAGAAG
TCAATGCAAAATCATGCTGCCGTGTTCCGTGTGGGAAGCGTGTGCAAGAAGGTTGTGGGAAAATCAGCAAGCTC
TATGGAGACCTAAAGCACCTGAAGACGTTCCAGCGGGGAATGGTCTGGAACACGGACCTGGTGGAGACCCTGGAG
CTGCAGAACCTGATGCTGTGTGCGCTGCAGACCATCTACGGAGCAGAGGCACGGAAGGAGTCACGGGGCGCGCAT
GCCAGGGAAGACTACAAGGTGCGGATTGATGAGTACGATTACTCCAAGCCCATCCAGGGGCAACAGAAGAAGCCC
TTTGAGGAGCACTGGAGGAAGCACACCCTGTCTTATGTGGACGTTGGCACTGGGAAGGTCACTCTGGAATATAGA
CCCGTGATCGACAAAACCTTTGAACGAGGCTGACTGTGCCACCGTCCCGCCAGCCATTGCTCCTACTGATGAGAC
AAGATGTGGTGTGACAGAATCAGCTTTGTAAATTATGTATAATAGCTCATGCATGTGTCCATGTCATAACTGTC
TTCATACGCTTCTGCACTCTGGGGAAGAAGGAGTACATTGAAGGGAGATTGGCACCTAGTGGCTGGGAGCTTGCC
AGGAACCCAGTGGCCAGGGAGCGTGGCACTTACCTTTGTCCCTTGCTTCATTCTTGTGAGATGATAAACTGGGC
ACAGCTCTTAAATAAAATATAAATGA

1668/6881
FIGURE 1542

MSGVRGLSRLLSARRLALAKAWPTVLQTGTRGFHFTVDGNKRASAKVSDSISAQYPVVDHEFDVVVGAGGAGLR
AAFGLSEAGFNTACVTKLFPTRSHTVAAQGGINAALGNMEEDNWRWHFYDTVKGSDWLGDQDAIHYTEQAPAAV
VELENYGMPFSRTEDGKIYQRAFGGQSLKFGKGGQAHRCCCVADRTGHSLLHTLYGRSLRYDTSYFVEYFALDLL
MENGEGRGVIALCIEDGSIHRIRAKNTVVATGGYGRTYFSCTSAHTSTGDGTAMITRAGLPQDLEFVQFHPTGI
YGAGCLITEGCRGEGGILINSQGERFMERYAPVAKDLASRDVVSRSMTLEIREGRGCGPEKDHVYLQLHHLPEQ
LATRLPGISETAMIFAGVDVTKEPIPVLPVHYNMGGIPTNYKGQVLRHVNGQDQIVPGLYACGEAACASVHGAN
RLGANSLLDLVVFGRACALSIEESCRPGDKVPPIKPNAGEESVMNLDKLRFADGSIRTSELRLSMQKSMQNHAAY
FRVGSVLQEGCGKISKLYGDLKHLKTFDRGMVWNTDLVETLELQNLMLCALQTIYGAEARKESRGAHAREDYKVR
IDEYDYSKPIQGQKKPFEEHWRKHTLSYVDVGTGKVTLEYRPVIDKTLNEADCATVPPAIRSY

1669/6881
FIGURE 1543

CTGGAGCTGCAGAACCTGATGCTGTGTGCGCTGCAGACCATCTACGGAGCAGAGGCACGGAAGGAGTCACGGGGC
GCGCATGCCAGGGAAGACTACAAGGTGGGCCTTCTCACCACGCCCACCTGCACCTGCCTTTTCCTGCCACCTGGT
GGGACTCAGCCCCACCCCTGCATTTTCTCTGCATTTTCTTCGTTGCCCAAAAGTAAATCCAAAAATGCCTTT
TTCCCCCTGGTAACTTTGATCCCTGGGTTCCTCGCCATCTTCTGGATCACTGTGACCTTTTCCTTGCTTTGGGTC
GGCATCCACTGATGCCAGCAGTGGCATCTCCAAGCCAATGTGCTTTGCTGTTAGAAGGCCAAGGTTAGAAGTGCA
GCTAGAGTGGCAAGACCAGGAAATAAATGCCAGTTTATTAAATAACGAGTAAGCCACCGTTTCAAACCTGCCCTG
TGGAGGAAATGCCAGTTTATTAAATAACGAGTAAGCCACCGTTTCAAACCTGCCCTGTGGAGGAAATGCCAGTTT
ATTAAATAACGAGTAAGCCACCGTTTCAAGCCTGCCCTGTGGAGGAAATGCCAGTTTATTAAATAACGAGTAAGC
C

1670/6881
FIGURE 1544

TTTACGATATCCAAATAAACTGGACACCATCACATGGACGTGGCAAGGACCTGGAGCGCTGGAAATCCTGTGGCT
CACGCTGTGTCTAGTTTACAAACCAAGTGGAAATCGAGTTCCTTCTGTGTACAGCCCTTCTGAGGAGGAGAAGAG
GAACCCCGCGCTGTATGCCAGCAACGTGCGGCGAGTCATGGCCGAGGCCTTGGGTGTCTCCGTGACTGACTACAC
GTTTCGAGGACTGCCAGCTGGCCCTGGCGGAAGGACAGCTCCGTCTCCCGCTGACACTTGCCTTTTAGAATTTGC
CAGGCTCGTGCGGGGCCCTCGGGCTAAAACAGAAAAGCTTGAAAAAGATCTGGACAGATACTCAGAAAGAGCCAG
GATGAAGGGAGGAGAGAAGATAGGTATTGCGGAGTTTGCCGCTCCCTGGAAGTCCCGTTCCTGACTTGCTGGA
AGACATGTTTTACTGTTCGACGAGAGCGGACGCGGCGAGGTGGACCTGCGAGAGTGTGTGGTTGCCCTGTCTGT
CGTCTGCCGCGCGGCCCGGACCCTGGACACCATCCAGCTGGCTTTCAAGATGTACGGAGCGCAAGAGGACGGCAG
CGTCGGCGAAGGTGACCTGTCTGCATCCTCAAGACGGCCCTGGGGGTGGCAGAGCTCACCGTGACCGACCTATT
CCGAGCCATTGACCAAGAGGAGAAGGGGAAGATCACATTGCTGACTTCCACAGGTTTGCAGAAATGTACCCTGC
CTTCGCAGAGGAATACCTGTACCCGGATCAGACACATTTGAAAGCTGTGCAGAGACCTCACCTGCGCCAATCCC
AAACGGCTTCTGTGCCGATTTAGCCCGGAAAACCTCAGACGCTGGGCGGAAGCCTGTTGCAAGAAGCTGGATTA
GGACCCAGGGTTGCGGAGAGACGCGGCCCTCCCGCGTGGACATCACCGCCATGAGCCTCTTTGCGAGTGACCTC
TGGGCTCCGCTCCTCACTCCTGTGTACAGGCACTGTCTTACGCCCAGTTCAGGGGCTCGGGGGCTGTTTGT
ATCTTGTTCCTTTGTGAAGTGTGTGTCAGAACCGACGCTTACTGTGCGAGAATCGGAGGGCGCGACGCGGATCC
CCCGCTGGCCTGGACCCCGTGGGGTCAAGTTCCCTGCGGGCGGGGGGCACCGTGCCGCCCCGTGTTCTCCCA
CGGGGCCCTGGTTTCGAGTCTCTGTACAGCCTCTTCCGGCGGCAGCGTGCACCGGGCGGGCTCCGTGCACACT
CAGCACACGCCTGCCACACAGCGTGCGCTTGCCTGTCACTTGGCACGAAACCTGTCTGCCTCTGTGGATCCACA
GCCTGGCAGAGCCGAGCCGTACCTGATTTTTCTAGTGTCTTCACTGTGTGCTGGAGCTCATGATATTTTATAA
ACTCCATTAGGTACTTCAGGAAACATGCAGCATTTTTTAAAAATGAAAATTGTTTTCTACTTCATTTTTCTCT
TTTAGAGTCAAAGGATATTTATTTATAGCCCTTTTTTTTTTAAATATAGAATCTGAGGCTGTTTGGGCTTTGACT
TAAATTTCCATCAGGCCTCTCTCCAGCAGGTAATCCCTCTCCTTCCGCTGGGTCCCTGGGGAGGTGTGAACCA
AGGGCTAGCCCCAAAACACTTTTTCTGCTTTTCTTAATCCTTTTCCAGTCCCTCTTTTTTTATAAACGTTGGC
AGTTTGATGTTTCTGTTTGGGCATAACGTAATCCATTTCACTGTAGCCTAACTCCAGTCCGAGGTTGGATATTG
TTCAAATGAGCAGGGCCCGAGCTGGAAGCGCAAGGCAGCCGCGCGCTCCCTCCCTTGCCTCAGGCCAG
GTCCCTGTCTGGAAGCGGCTGCATCTTCTGTACGCCCTGGTTCCATGGTGACTGGCGTCACGCTGCCACCCGAG
TATGGCTGACCTTCTGCGAGAGAGAGGAGCCGAGTCTTTTGTGTTGGAAGGAGACGCTGGGCTGTGCGGTGCG
GAGGGTGATGAGGATGTCTGGTGACAGCCGTGCGGACACCACTCCTCTCTGCAGCACTGCCTCCAGCGCCAGGG
TCGCGGGCACATCCCACTGAGAGCGGGGTCCTGCCCATCTTAGAGTCAAAGGCAGAGGGGCTTCCAGGCCCTG
GATGGGGTATTTTGGTGTACCTGAAGTCCCTCTGACATCACCTTGTTTTCATCATTTTTTATGACAGAATTAGAA
ACCCATCCTTCAAGCACATAATCATCACAGACTTGAGTTTGCTTCTTAAAGCAAAGGCTCCGGGTTTGTGTTGGA
AAATTTTTTTGATTTCTGAAATGAATTGATTTTATATTTGGGGCATCTCTATAGAAAGTGACCACCAAGGCCAG
TAAGTACGGGAAAAAATGTTTACTAAGTTCCTCAGAGATTCTGTATACGCGTTTCTCCACTGACAGACATTTAAA
AACAACTTCAGCTCCGTTTCAATCAATCACCTCGACTTGTTTTTAGCATGGACACTGCCAGCAGGACAGACAG
GGATGGAGTAAACCGAAGTCAATTTAGGGCTCTTGGCGTGTGGACACAGAAGAAATCCTAGTGCAGCCTTTGG
TAGCTAACAGTCACTGATTTTATAATTGGAGAATGCGTAAAGATTCATTTTTCAAGGAGAAGAGCCTGCAAATGG
CCAATGAAGGAGGTAAATAAACTAAGATATTCCGAGGGAAGGGACCCAGGCCACCTCCCTTCCGAGGTCTGCAG
ATGAAGGGTTTTTTGAATGAAATGCCACTGTGCATTTTCAGAAAAAAAATCTCTGATAAACAGACTTTGAATGG
ATGTTTGTTCCTCCTGATTCTCTTTTCTCTTCTGTCGCGACTTAGAGTTGGCGGATATTGGAAGTGTGAATGTAC
ATAGCGTTGAGTTAAACCCCTTGTGTGTGAGACAGGACGACGCGGGCCCTGGTGGCTGGGGGCCAGACCCGTG
GGCAGTGGGGCATGGGCCCTGGCCTGCGGGGACCTGCTGGGGTGTGAGGGCAGAGGGAGGGTTGCCATGAAGGA
ACTTGGGATTTTCAATGGAATAAGTAAACATAAAGTCTATACTTGGG

1671/6881
FIGURE 1545

GGCGGCTGAGAGGCGGGCGGGCGGGGGCGCCGGGCGCGGGGCGGCC**ATGT**GAGCGGCCGAGCTCCTTACCA
GCTTGGTGGTGGGCGTGTTCTGTGGTCTACGTGGTGACACCTGCTGGGTGATGTACGGCATCGTCTACACCGCC
CGTGCTCCGGCGACGCCAACTGCATCCAGCCCTACCTGGCGCGGGCGGCCAAAGCTGCAGCTGAGCGTGTACCA
CGACGAGGTCCCACTGGGTGCTGAGAACAACATCGACCTGGTCTTGAATGTGAAGACTTTGATGTGGAGTCCA
AATTTGAAAGGACAGTTAATGTTTCTGTACCAAAGAAAACGAGAAACAATGGGACGCTGTATGCCTACATCTTC
TCCATCACGCTGGGTCCTGCCGTGGCACGACGGGAAGCAGGTGCACCTGGTCAGTCCTCTGACCACCTACATGG
TCCCCAAGCCAGAAGAAATCAACCTGCTCACCGGGGAGTCTGATACACAGCAGATCGAGGCGGAGAAGAAGCCGA
CGAGTGGCCTGGATGAGCCAGTGTCCCACTGGCGACCGGGCTGGCGCTGAACGTGATGGCGGACAACCTTGTCT
TTGACGGGTCTCCTGCTGCGGATGTGCATCGGTACATGAAGATGATCCAGCTGGGGAAAACCGTGCATTACC
TGCCCATCCTGTTTCATCGACCACTGAGCAACCGCGTGAAGGACCTGATGGTCATAAACCGCTCCACCACCGAGC
TGCCCTCACCGTGTCTACGACAAGGTCTCACTGGGGCGGCTGCGCTTCTGGATCCACATGCAGGACGCGGTGT
ACTCCCTGCAGCAGTTCCGGTTTTTCAGAGAAAGATGCTGATGAGGTGAAAGGAATTTTTGTAGATAACCACTTAT
ACTTCTGGCGCTGACCTTCTTTGTGCGAGCGTTCATCTTCTCTTTGATTCTCTGGCCTTTAAAAATGACATCA
GTTTCTGGAAGAAGAAGAAGAGCATGATCGGCATGTCCACCAAGGCAGTGCTCTGGCGCTGCTTCAGCACCGTGG
TCATCTTTCTGTTCTGCTGGACGAGCAGACGAGCCTGCTGGTGCTGGTCCCGGCGGGTGTGGAGCCGCCATTG
AGCTGTGGAAGTGAAGAAGGCATTGAAGATGACTATTTTTTGGAGAGGCCTGATGCCCGAATTCAGTTTGGCA
CTTACAGCGAATCTGAGAGGAAAACCGAGGAGTACGATACTCAGGCCATGAAGTACTTGTACATCCTGCTGTACC
CTCTCTGTGTGCGGGGTGCTGTCTATTCACTCCTGAATATCAAATATAAGAGCTGGTACTCCTGGTTAATCAACA
GCTTCGTCAACGGGGTCTATGCCTTTGGTTTCTCTTCATGCTGCCCCAGCTCTTGTGAACATAAGTTGAAGT
CAGTGGCACATCTGCCCTGGAAGGCCTTCACTACAAGGCTTCAACACCTTCATTGATGACGCTTTGCCTTCA
TCATCACCATGCCCCAGTCTCACCGGCTGGCCTGCTTCCGGGACGACGTGGTGTCTTGGTCTACCTGTACCAGC
GGTGGCTTTATCCTGTGGATAAACCGCAGAGTGAACGAGTTTGGGGAGTCTACGAGGAGAAGGCCACGCGGGCGC
CCCACACGGACTGAAGGCCCGCCGGGCTGCCGCCAGCCAAGTGCAACTTGAATTGTCAATGAGTATTTTTGGAAG
CATTTGGAGGAATTCCTAGACATTGCGTTTTCTGTGTTGCCAAAATCCCTTCGGACATTTCTCAGACATCTCCCA
AGTTCCCATCACGTCAGATTTGGAGCTGGTAGCGCTTACGATGCCCCACGTGTGAACATCTGTCTTGGTCACAG
AGCTGGGTGCTGCCGGTCACCTTGAGCTGTGGTGGCTCCCGGCACACGAGTGTCGGGGTTCCGGCCATGTCTCA
CGCGGGCAGGGGTGGGAGCCCTCACAGGCAAGGGGGCTGTTGGATTTCATTTCAGGTGGTTTTCTAAGTGCTCC
TTATGTGAATTTCAAACACGTATGGAATTCATTCCGCATGGACTCTGGGATCAAAGGCTCTTTCTCTTTTGT
GAGAGTTGGTTGTTTTAAAGCTTAATGTATGTTTCTATTTTAAATAAAAAAAAAAAAAAAAAA

1672/6881
FIGURE 1546

MWSGRSSFTSLVVGVFVVYVVHTCWVMYGIVYTRPCSGDANCIQPYLARRPKLQLSVYTTTRSHLGAENNIDLVL
NVEDFDVESKFERTVNVSVPPKTRNNGTLYAYIFLHHAGVLPWHDGKQVHLVSPLTTYMVPKPEEINLLTGESDT
QQIEAEKKPTSALDEPVSHWRPRLALNVMADNFVFDGSSLPADVHRYMKMIQLGKTVHYLPILFIDQLSNRVKDL
MVINRSTTELPLTVSYDKVSLGRLRFWIHMQDAVYSLQQFGFSEKDADEVKGIFVDTNLYFLALTFFVAAFHLLF
DFLAFKNDISFWKKKSMIGMSTKAVLWRCFSTVVIFLFLLEQTSLLVLVPAGVGAAIELWKVKKALKMTIFWR
GLMPEFQFGTYSESERKTEEYDTQAMKYLSYLLYPLCVGGAVYSLNLIKYSWYSLINSEFVNGVYAFGFLFMLP
QLFVNYKLKSV AHL PWKAFTYKAFNTFIDDVFAFIITMPTSHRLACFRDDVVFLVYLYQRWLYPVDKRRVNEFGE
SYEEKATRAPHTD

1673/6881
FIGURE 1547

CTTCCCTTTTGCGGCTATCACC GAAGCAGGAGTGGCCAAAATGAAGTTTAATCCCTTTGTGACTTCCGACCGAAG
CAAGAATCGCAAAAGGCATTTCAATGCACCTTCCCACATTCGAAGGAAGACTATGTCTTCCCCTCTTTCCAAAGA
GCTGAGACAGAAGTACAACGTGTGATCCATGCCCATCCGAAAGGATGATGAAGTTCAGGTTGTACGTGGACACTA
TAAAGGTCAGCAAATTGGCAAAGTAGTCCAGGTTTACAGGAAGAAATATGTTATCTACATTGAACGGGTGCAGCG
GGAAAAGGCTAATGGCACAACTGTCCACGTAGGCATTACCCCAGCAAGGTGGTTATCACTAGGCTAAA ACTGGA
CAAAGACTGTGAAAAGATCCTTGAACGGAAAGCCAAATCTTGCCAAGTAGGAAAGGAAAAGGGCAAATACAAGGA
AGAAACAATTGAGAAGATGCAGGAATAAAGTAATCTTATATACAAGCTTCGATTAAA ACTTGAAACAAAGAAAAA

1674/6881
FIGURE 1548

CCAGAACACAGGTGTCATGAAACTACCCCTAAAAGCCAAAATGGGAAAGGAAAAGACTCATATCAACATTGTCG
TCATTGGACACGTAGATTCCGGCAGGATGTCTACAAAATTGGTGGTATTGGTAGTGTTCTGTTGGCCGAGTGGAG
ACTGGTATTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACAGAAGTAAAATCTGTGCGAA
ATGCACCATGAAGCTTTGGGTGAAGCTCTTCCTGGGGACAGTGTGGGCTTCCATGTCAAGAATGTGTCTGTCAAG
GATGTTTCGTCGTGGCAACGTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAGCAGCTGGCTTCACCTGCTCAG
GTGATTATCCTGAACCATCCAGGCCAAATAAGCGCTGGCTATGCCCCGTATTGGATTGCCACACGGCTCATATT
GCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCCGTTCTGGTAAAAAGCTGGAAGATGGCCCTAAATTC
TTGAAGTCCGGTGATGCTGCCATTGTTGATATGGTTCCTGGCAAGCCCATGTGTGCTGAGAGCTTCTCAGACTAT
CCACCTTTGGGTCGCTTTGCTGTTCTGTGATATGAGACACACAGTTGCGGTGGGTGTCATCAAAGCAGTGGACAAG
AAGGCTGCTGGAGCTGGCAAGGTCACCAACTCTGCCCAGAAAGCTCAGATGGCTAAATGAATATTATCCCTAATA
C

1675/6881
FIGURE 1549

CGACACAGTAGCATTTGTGCCAATTTCTGGTTGGAATGGTAACAACATGCTGGAGCCAAGTGCTAACATGCCTTG
GTTCAAGGGATGGAAAGTCACCCGTAAGGATGGCAATGCCAGTGGAAACCATGCTGCTTGAGGCTCTGGACTGCAT
CCTACCACCAACTCGTCCAAGTACAAGCCCTTGCGCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGG
TAGTGTTCCCTGTTGGCCGAGTGGAGACTGGTATTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGT
TACAACAGAAGTAAAATCTGTCGAAATGCACCATGAAGCTTTGGGTGAAGCTCTTCCTGGGGACAGTGTGGGCTT
CCATGTCAAGAATGTGTCTGTCAAGGATGTTCTGTCGTGGCAACGTGCTGGTGACAGCAAAAATGACCCACCAAT
GGAAGCAGCTGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAAGCGCTGGCTATGCCCTGT
ATTGGATTGCCACACGGCTCATATTGCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCCGTTCTGGTAA
TATGGTTCCTGGCAAGCCCATGTGTGCTGAGAGCTTCTCAGACTATCCACCTTTGGGTCGCTTTGCTGTTCTGTGA
TATGAGACACACAGTTGCGGTGGGTGTCATCAAAGC

1676/6881
FIGURE 1550

GCCAAAATGGGAAAGGAAAAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTCTGGGCAAGTCCACCACT
ACTGGCCATCTGATCTATAAATGCAGTAGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGACTGCTGAG
ATGGGAAAGGGCTCTTTCAAGTATGGCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCACT
GATATCTCCTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACTATCACTGATGCTCCAGGACACAGAGACTTC
ATCAAAAACATGATTACAGGGACATCTCAGGCTGACTGTGCTGTCCCGATTGTTGCTGCTGGTGTGGTGAATTT
GAAGCTGGTATCTCTAAGAATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAATA
ATTGTTGGTGTAAACAAAATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTGTTAAGGAA
GTCAGCACTTACATTAAGAAAATGGCTACAACCCCGACACAGTAGCATTGTGCCAAATTCCTGAAGTCCGGTG
ATGCTGCCATTGTTGATATGGTTCCTGGCAAGCCCATGTGTGCTGAGAGCTTCTCAGACTATCCACCTTTGGGTG
GCTTTGCTGTTTCGTGATATGAGACACACAGTTGCGGTGGGTGTC

1677/6881
FIGURE 1551

AAATTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTGGCTACAACCCCGACACAGTAGCATTGTGCCAATTT
CTGGTTGGAATGGTAACAACATGCTGGAGCCAAGTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCGTA
AGGATGGCAATGCCAGTGGAAACCATGCTGCTTGAGGCTCTGGACTGCATCCTACCACCAACTCGTCCAACGACA
AGCCCTTGCGCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTAGTGTTCCTGTTGGCCGAGTGGAGA
CTGGTATTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACAGAAGTAAAATCTGTCGAAA
TGCACCATGAAGCTTTGGGTGAAGCTCTTCCTGGGGACAGTGTGGGCTTCCATGTCAAGAATGTGTCTGTCAAGG
ATGTTTCGTCGTGGCAACGTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGG
TGATTATCCTGAACCATCCAGGCCAAATAAGCGCTGGCTATGCCCTGTATTGGATTGCCACACGGCTCATATTG
CATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCCGTTCTGGTAAAAAGCTGGAAGATGGCCCTAACCACC
TTTGGGTCGCTTTGCTGTTCGTGATATGAGACACACAGTTGCGGTGGG

1678/6881
FIGURE 1552

CTTTTTCACAACGGGTTTGCCGCCAGAACACAGGTGTCATGAAAAC TACCCCTAAAAGCCAAAATGGGAAAGGAA
AAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTCGGGCAAGTCCACCACTACTGGCCATCTGATCTAT
AAATGCAGTAGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGACTGCTGAGATGGGAAAGGGCTCTTTC
AAGTATGGCTGGGTCTTGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGGAAA
TTTGAGACCAGCAAGTACTATGTGACTATCACTGATGCTCCAGGGATGTCTACAAAATTGGTGGTATTGGTAGTG
TTCCTGTTGGCCGAGTGGAGACTGGTATTCTCAAACCCGGTATGGTGGTCACCTTGCTCCAGTCAACGTTACAA
CAGAAGTAAATCTGTCGAAATGCACCATGAAGCTTTGGGTGAAGCTCTTCCTGGGGACAGTGTGGGCTTCCATG
TCAAGAATGTGTCIGTCAAGGATGTTTCGTCGTGGCAACGTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAG
CAGCTGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAAGCGCTGGCTATGCCCTGTATTGG
ATTGCCACACGGCTCATATTGCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCCGTTCTGGTAAAAAGC
TGGAAGATGGCCCTAAATTCCTGAAGTCCGGTGATGCTGCCATTGTTGATATGGTTCCTGGCAAGCCCATGTGTG

1679/6881
FIGURE 1553

CTTTTTCACAACGGGTTTGCCGCCAGAACACAGGTGTCATGAAAACCTACCCCTAAAAGCCAAAATGGGAAAGGAA
AAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTGGGCAAGTCCACCACTACTGGCCATCTGATCTAT
AAATGCAGTAGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGACTGCTGAGATGGGAAAGGGCTCTTTC
AAGTATGGCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGGAAA
TTTGAGACCAGCAAGTACTATGTGACTATCACTGATGCTCCAGGACACAGAGACTTCATCAAAAACATGATTACA
GGGACATCTCAGGCTGACTGTGCTGTCCCGATTGTTGCTGCTGGTGTTTTCTCAAACCCGGTATGGTGGTCACCT
TTGCTCCAGTCAACGTTACAACAGAAGTAAAAATCTGTGCAAAATGCACCATGAAGCTTTGGGTGAAGCTCTTCCTG
GGGACAGTGTGGGCTTCCATGTCAAGAATGTGTCTGTCAAGGATGTTTCGTCGTGGCAACGTTGCTGGTGACAGCA
AAAATGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAAGCG
CTGGCTATGCCCCGTGATTGGATTGCCACACGGCTCATATTGCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTG
ATCGCCGTTCTGGTAAAAAGCTGGAAGATGGCCCTAAATTCCTGAAGTCCGGTGATGCTGCCATTGTTGATATGG
TTCCTGGCAAGCCC

1680/6881
FIGURE 1554

CTTTTTCACAACGGGTTTGCCGCCAGAACACAGGTGTCATGAAAAC TACCCCTAAAAGCCAAAATGGGAAAGGAA
AAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTCGGGCAAGTCCACCACTACTGGCCATCTGATCTAT
AAATGCAGTAGCATCGACAAAAGAACCATTGATATCTCCTTGTTGGAAATTTGAGACCAGCAAGTACTATGTGACT
ATCACTGATGCTCCAGGACACAGAGACTTCATCAAAAACATGATTACAGGGACATCTCAGGCTGACTGTGCTGTC
CCGATTGTTGCTGCTGGTGTGGTGAATTTGAAGCTGGTATCTCTAAGAATGGGCAGACCCGAGAGCATGCCCTT
CTGGCTTACACACTGGGTGTGAAACAATAATTGTTGGTGTTAACAAAATGGATTCCACTGAGCCACCCCTACAGC
CAGAAGAGATATGAGGAAATTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTGGCTACAACCCCGACACAGTA
GCATTTGTGCCAATTTCTGGTTGGAATGGTAACAACATGCTGGAGCCAAGTGCTAACATGCCTTGTTCAAGGGA
TGGAAAGTCACCCGTAAGGATGGCAATGCCAGTGAACCATGCTGCTTGAGGCTCTGGACTGCATCCTACCACCA
ACTCGTCCAAGTACAAGCCCTTGCGCCTGCCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTAGTGTTCCT
GTTGGCCGAGTGGAGACTGGTATTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACAGAA
GTTGTGGGCTTCCATGTCAAGAATGTGTCTGTCAAGGATGTTGCTCGTGGCAACGTTGCTGGTGACAGCAAAAAT
GACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAA

1681/6881

FIGURE 1555

TATAAATGCAGTAGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGACTGCTGAGATGGGAAAGGGCTCT
TTCAAGTATGGCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGG
AAATTTGAGACCAGCAAGTACTATGTGACTATCACTGATGCTCCAGGACACAGAGACTTCATCAAAAACATGATT
ACAGGGACATCTCAGGCTGACTGTGCTGTCCCGATTGTTGCTGCTGGTGTGGTGAATTTGAAGCTGGTATCTCT
AAGAATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAATAATTGTTGGTGTAAAC
AAAATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTGTTAAGGAAGTCAGCACTTACATT
AAGAAAATTGGCTACAACCCCGACACAGTAGCATTGTGCCAATTTCTGGTTGGAATGGTAACAACATGCTGGAG
CCAAGTGCTAACATGCCCTTGGTTCAAGGGATGGAAAGTCACCCGTAAGGATGGCAATGCCAGTGGAACCATGCTG
CTTGAGGGCTCCAGTCAACGTTACAACAGAAGTAAATCTGTGCAATGCACCATGAAGCTTTGGGTGAAGCTCT
TCTGGGGACAGTGTGGGCTTCCATGTCAAGAATGTGTCTGTCAAGGATGTTCTGTCGTGGCAACGTTGCTGGTGA
CAGCAAAAATGACCCACCAATGGAAGCAGCTGGCTTCACTGCTCAGG

1682/6881

FIGURE 1556

GTGGCGTGTGAGTGGCTCTTCTGGCTGCTGAGGCGGGTTAAGGTCTGAGGGTCTTGTGGGGCCACGGCGCTG
ATCACCAGGTGTTTGGCTTGGTCTGGTTCTTATTTCTCGCTGGCAATGGCGACGTACACCTGCATAACTTGCCGG
GTGGCGTTCCGCGACGCGGACATGCAGCGGGCCACTATAAGACGGACTGGCACCCTACAACCTGCGGGGGAAG
GTGGCCAGCATGGCCCCAGTGACCGCCGAGGGCTTCCAGGAGCGAGTGGCGGCGCAGCGGGCCGTGCGGGAGGAG
GAGAGCAAGGGCTCGGCCACCTACTGCACCGTTTGCAGTAAGAAGTTTGCTCTTTCAACGCCTACGAGAACCAC
CTCAAGTCCCGGCGTCACGTTGAGCTGGAGAAGAAGGCCGTGCAGGCAGTGAATCGGAAAGTGGAGATGATGAAT
GAAAAGAACTTGGAGAAAGGACTGGGCGTGGACAGTGTGGACAAGGATGCCATGAACGCGGCCATCCAGCAGGCC
ATCAAGGCCCAGCCGTCCATGTCTCCCAAGAAGGCGCCCCAGCGCCTGCAAAGGAGGCCAGGAATGTCGTGGCC
GTGGGTACTGGTGGCCGTGGGACCCACGACCGAGACCCGAGTGAGAAACCACCCCGGCTCCAGTGGTTTGAACAG
CAGGCGAAGAAGTTGGCAAAGCAGCAGGAGGAGGACAGCGAGGAGGAAGAGGACCTGGATGGAGACGATTGG
GAAGATATTGATTCTGATGAAGAATTGGAATGTGAGGATACTGAAGCAATGGACGATGTGGTGGAGCAGGATGCA
GAGGAGGAAGAGGCTGAGGAAGGCCACCCCTTGGTGGCATCCCTATCACGGACTGCTTATTTTGTTCCTCAT
TCCAGCTCGCTGATGAAGAATGTGGCTCACATGACCAAAGACCACAGTTTCTTTATTCCTGATATAGAATATCTT
TCAGATATTAAGGGACTGATTAAATACTTGGGAGAGAAAGTTGGTGTGGCAAGATTGCTTGTGGTGCAACGAG
AAAGGGAAGTCCTTCTACTCCACAGAAGCTGTACAGGCACATATGAATGACAAAAGCCACTGTAAGCTCTTCACA
GATGGCGATGCTGCTTTGGAATTTGCAGACTTCTATGATTTTAGGAGTAGCTATCCAGATCACAAGGAAGGGAG
GACCCCAATAAGGCTGAGGAGTTGCCCTCAGAAAAGAACTTGAATATGATGATGAAACCATGGAATTGATTCTG
CCTTCTGGTGCCAGAGTGGGTCATCGCTCCTTGATGAGATACCTACAAACAGCGATTGCTTGTCAAGAGCTGTG
GCAGTTGCCAAAAATCGGAAGGCCGTGGGCCGAGTACTTCAGCAGTACAGAGCCCTGGGATGGACTGGCAGCACA
GGAGCGGCTCTTATGCGAGAGCGAGACATGCAGTATGTCCAAAGGATGAAATCAAAATGGATGCTGAAGACAGGA
ATGAAGAACAATGCCACCAAGCAGATGCACTTTCGGGTCCAAGTGAGATTCTGAGAGTCTGCTGGGATTGAGCAA
TCATCTCCTGCCCAAGTTTCTCCTTGCCCTGAGGACCAGTGAAAGACAGATCATAGGAGAGACCCCTTTTGTGTC
TACTTCATTGCTTCTGACCTAATAATAAAAGTTAGAACCAT

1683/6881
FIGURE 1557

GAAC TCCAAGATGGGAGGCAAGCTCAGCAAGAAGAAGGGCTACAATGTGAACGACGAGAAAGCCAAGGAGAA
AGACAAGAAGGCCGAGGGCGCGGCGACGGAAGAGGAGGGGACCCCGAAGGAGAGTGAGCCCCAGGCGGCCGAGA
GCCCCGCCGAGGCCAAGGAGGGCAAGGAGAAGCCCGACAGGACGCCGAGGGCAAGGCCGAGGAGAAGGAGGGCGA
GAAGGACGCGGCGGCTGCCAAGGAGGAGGCCCCGAAGGCGGAGCCCCGAGAAGACGAGGGCGCGGCAGAGGCCAA
GGCTGAGCCCCCGAAGGCGCCCGAGCAGGAGCAGGCGGCCCCCGGCCCCGCTGCGGGCGGCGAGGCCCCCAAAGC
TGCTGAGGCCGCGCGGCCCCGCGGCGAGAGCGGCCCCCTGCCGCCGGGAGGAGCCCAGCAAGGAGGAAGGGGA
ACCCAAAAAGACTGAGGCGCCCGCAGCTCCTGCCGCCAGGAGACCAAAGTGACGGGGCCCCAGCTTCAGACTC
AAAACCCGGCAGCTCGGAGGCTGCCCCCTCTTCCAAGGAGACCCCGCAGCCACGGAAGCGCCTAGTTCCACACC
CAAGGCCCAGGGCCCCCGCAGCCTCTGCAGAAGAGCCCAAGCCGGTGGAGGCCCGGCAGCTAATTCCGACCAAAC
CGTAACCGTGAAAGAGTGACAAGGACAGCCTATAGGAAAAACAATACCACTTAAACAATCTCCTCTCTCTCTCT
CTCTCTCTCTCTCTATCTCTCTCTCTATCTCCT
ACTAATTGTTTCAAATTGGAAGTAATGATATGTATTGCCCAAGGAAAAATACAGGATGTTGTCCCATCAAGGGA
GGGAGGGGGTGGGAGAATCCAAATAGTATTTTTGTGGGGAATATCTAATATACCTTCAGTCAACTTTACCAAGA
AGTCCTGGATTTCGAAGATCCGCGTCTGAAAGTGCAAGTACATCGTTTGTACCTGAAACTGCCGCCACATGCACTC
CTCCACCGCTGAGAGTTGAATAGCTTTTCTTCTGCAATGGGAGTTGGGAGTGATGCGTTTGATTCTGCCCACAGG
GCCTGTGCCAAGGCAATCAGATCTTTATGAGAGCAGTATTTTCTGTGTTTTCTTTTAAATTTACAGCCTTTCTTA
TTTTGATATTTTTTAATGTTGTGGATGAATGCCAGCTTTCAGACAGAGCCCACTTAGCTTGTCCACATGGATCT
CAATGCCAATCCTCCATTCTTCTCTCCAGATATTTTGGGAGTGACAAACATTCTCTCATCCTACTTAGCCTAC
CTAGATTTCTCATGACGAGTTAATGCATGTCCGTGGTTGGGTGCACCTGTAGTTCTGTTTATTGGTCAGTGAAA
TG

1684/6881
FIGURE 1558

MGGKLSKKKKGYNVNDEKAKEKDKKAEGAATEEEGTPKESEPQAAAEPAEAKEGKEKPDQDAEGKAEEKEGEKDA
AAAKEEAPKAEPEKTEGAAEAKAEPKAPQEQAAPGPAAGGEAPKAAEAAAAPAESAAPAGEEPSKEEGEPKK
TEAPAAPAAQETKSDGAPASDSKPGSSEAAPSSKETPAATEAPSSTPKAQGPAAEAEPKPVEAPAANSDQTVTV
KE

1685/6881
FIGURE 1559

CGAGAGTCGTCGGGGTTTCCTGCTTCAACAGTGCTTGGACAGAACCTGGCGCTCGTCCCCACACCGGCCGGCTG
CCCATAGCCAGCCCTCCGTCACCTCCTCACC CGCAGCCGCCTCTCCTTAGTCGCCGCCATGACGACCGCGTCCAC
CTCACAGGTGCGCCAGGACTACCACCAGGACTAAAGGCCGCCATCAACCGCCAGATCAACCTGGAGCTCTACGCC
TCCTGCGTTTACCTGTCCATGTCTTACTACTTTGACCGCGATGATGTGGCTTTGAAGAACTTTGCCAAATACTTT
CTTCACCAATCTCATGAGGAGAGGGAACATGCTGAGAACTGATGAAGCTGCAGAACCAAGGAGGTGGCCGAATC
TTCCTTCAGGATATCAAGAAACCGGACTGTGATGACTGGGAGAGCGGGCTGAATGCGATGGAGTGTGCATTACAT
TTGGAAAAAATGTGAATCAGTCACTACTGGAAGTGCACAACTGGCCACTGACAAAAATGACCCCCATTTGTGT
GACTTCATTGAGACACATTACCTGAATGAGCAGGTCAAAGCCATCAAAGAATTGGGTGACCACATGACCAACTTG
TGCAAGATGGGAGCACCCGAATCTAGCTTGGCGGAATATCTCTTTGACCAGCACACCTGGGAGACAGTGATAAT
GAAAGCTAAGCCTCAGGCTAATTTCCCATAGCCGTGGGGTGACTTCCCTGGTCACCAAGG

1686/6881
FIGURE 1560

MSYYFDRDDVALKNFAKYFLHQSHEEREHAEKLMLQNQGGGRIFLQDIKKPCDDWESGLNAMECALHLEKNVN
QSLLELHKLATDKNDPHLCDFIETHYLNQVKAIKELGDHMTNLCKMGAPESSLAEYLFQHTLGDSDNES

1687/6881
FIGURE 1561

ATGCCCCAAAACGATCAGTGTGCGTGTGACCACCATGGACGCAGAGCTGGAGTTTACCATCCAGCCCCAACACCACC
GGGAAGCAGCTATTTGACCAGAAGGTGACTGCCCAGGAAGTGCGGAAGGAAAGCCCCCTGCTCTTTAAGTTTCAGT
GCCAAGTTCTACCCTGAGGATGTGTCCGACCGAGGAATTGATTCAGGACACCACTCAGCGTCTGTTCCCTTCTGCA
ATGAAAGAGGGGCATTCTCAGTGATGATATTTACTGCCGGCCTGAGACTGCTGTGCTGCTGGCCTCCCATGCTGTC
CAGTCTAAGTATGGGAACTTCAGTAAGGAGGTGCATAAGTCTGGCTACCTGGCCGGAGACGAGTTGCTCCACAG
AGAGTCCTGGAACAGCACAACTCAGCAAGGACCAGTGGGAGGAGCGGATCCAGGTGTGGCATGAGGAACACCGT
GGCATGCTCAGGGAGGATGCTGTCTTGAGTATCTGAAGATTGCTCAAGATCTGGAGATGTATGGTGTAACTAC
TTCAGCATCAAGAAAAAGAAAGGCTCAGAGCTGTGGCTGGGGGTGGATGCACTGGGTCTCAACATCTATGAGCAG
CATGACAGACTAACTCCCAAGATAGGCTTTTCCTTGGAGTGAAATCAGGAGCATTCTTTCAATGATAAGAACTTT
GTCATCAAGCCCATTGACAAAAGAGCCCCGGACTTTGTCTTCTATGCTCCCTGGCTGCAGATTAACAAGCGGATC
TTGGCCTTGTGCATGGGGAACCGTGAACATATACATGCGCCGTCGCAAGCCTGACACCATTGAGGTGCAGCAGATG
AAGGCACGGGCCCCGGGAGGAGAAGCACCAGAAGCAGATGGAGCGTGCTATGCTGGAAAATGAGAAGAAGCGTGAA
ATGGCAGAAAAGCAGAAAGAGAAGATTGAACGGGAGAAGGAGCTGATGGGAGGCTGAAGCAGATCGAGGAACAG
ACTAAGAAGGCTCAGCAAGAACTGGAAGAACAGACCCGTAGGGCTCTGGAAC TTGGGAAGGAACGGAAGCATGCC
CAGAGCGAGGCTGAAAAGCTGGCCAAGGAGCTTCAAGAAGCTGAAGAGGCCAAGGAAAAGAAAGAGAGTGAGGCT
ATGGAGTGGCAGCAGAAGGCCCAGATGGTACAGGAAGACTTGAGAAGACCCGTGCTGAGCTGAAGACTGCCATG
AGTACATCTCATGTGGCAGAGCCTGCTGAGAATGAGCAGGATGAGCAGGATGAGAATGGGGCAGAGGCTAGTGCT
GACCTACGGGCTGATGCTATGGCCAAGGACCGCAGTGAGGAGGAATGTACCCTGAGGCAGAGAAGAAATGAGCGT
GTGCAGAAGCACCTGAAGGCCCTCACTTCGGAGCTGGCCAGTGCCCGAGATGAGTCCAAGAAGACTGCCAATGAC
ATGATCCATGCTGAGAACAIGTGA

1688/6881

FIGURE 1562

ATGCCGCCCTCGCCTGCGTCCTGCGGCCGTCCCGAGGTGTCACGCTGTCAACAACACAAAGTCGTAGTTGACGTC
GACCATGAGCACTTAGCAGGAGGGCACGCACAGGGACTTGTGCCC GGCGGGGTCCAGCTCCTGCACCTTCAGCTG
CCACTCCATCCTCTGCACAGCGTTCAGGGCCGCAGCCTCGTGCTGCTGCCGCATGAGGAGGAAGAAGCTAGATGAA
CTTATGAGTGAAGAAGCCTATGAGAAATACATAAAATCTATTGAGGAGTGA

1689/6881
FIGURE 1563

MPPSPASCGRPEVSRCCQHKVVVDVDHEHLAGGHAQGLVPGGVQLLHLQLPLHPLHSVQGRSLVLLPHEEEELDE
LMSEEAYEKYIKSIEE